SAMSUNG

VRF Technical Data Book

DVM S for Euro_ET (R410A, 50Hz, HR)

Model : Premium (Compact / Energy Efficiency) Type

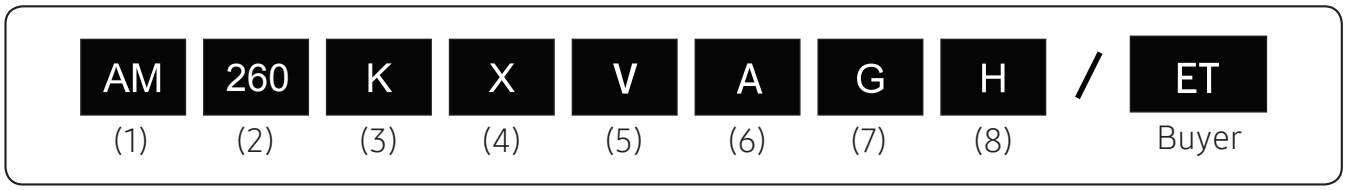
History

Version	Modification	Date	Remark
Ver. 1.0	Release DVM S (R410A, 50Hz, HR) for Euro_ET TDB	16.12.30	
Ver. 1.1	Modification for specification. - Level difference (IDU-IDU) : ~~50~~ → 40m	17.01.05	
Ver.1.11	Modify the Accessory Compatibility table for MCU kit (P.134)	17.09.13	
Ver.2.0	Updated Spec & Capacity data to meet the ErP standard	17.11.1	
Ver.2.1	Revised Sound Power & Weight data of 8/10/12HP	18.01.10	
Ver.2.2	Updated the Specification page	20.06.26	

Nomenclature

Outdoor Unit

Model Name



(1) Classification

AM	DVM

(2) Capacity

x 1/10 HP (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016
M	2017

(4) Product Type

X	Outdoor Unit
N	Indoor Unit

(5) Feature 1

V	Inverter
M	DVM S Eco

(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

(7) Rating Voltage

E	1Ø, 220~240V, 50Hz
G	3Ø, 380~415V, 50Hz
N	3Ø, 380~415V, 50/60Hz

(8) Mode

H	Heat Pump
R	Heat Recovery

Features & Benefits

Samsung's VRF system air conditioners offer instant temperature control, user-friendly installation and advanced functionality, along with smart power usage. Our flagship VRF-based Samsung DVM S is a highly innovative system that adopts the new third-generation Samsung Scroll Compressor (SSC) technology with Dual Digital Inverter. DVM S provides world-class energy efficiency and the most powerful cooling and heating performance available on the market. This ideal air conditioning system accomodates all variable environments, including large commercial or residential buildings.

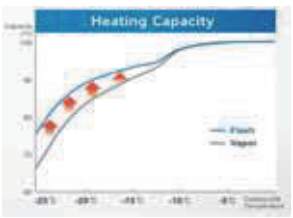
Samsung DVM S offers innovative features to benefit the indoor comfort as well operational coasts of the system through technological advances such as:

Large capacity

Capacities of the outdoor units offer up to 30 HP rooftop space savings as well as lowering the installations and transportation costs.

High seasonal energy efficiency

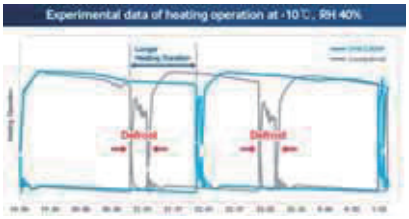
Samsung DVM S adopts a dual inverter scroll compressor that upgrades refrigerant flow and the motor's operating performance.



Superior Heating Performance & Wide Operating Temperature Range with Flash injection

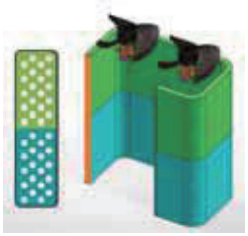
Increase refrigerant flow by 32%, extend heating operation range at -25°C, thanks to Flash Injection technology, extended compressor reliability range and control compression ratio.

Features & Benefits



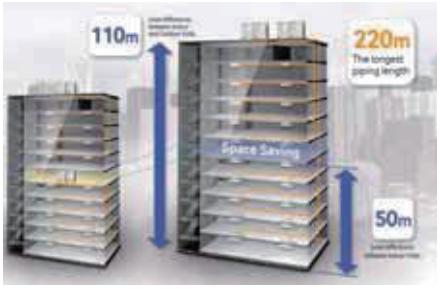
Intelligent Defrosting Logic

DVM S Intelligent Defrost Control logic keeps the unit in the heating mode for up to 40% longer through out the heating season compared to conventional model by monitoring the air resistance through the heat exchanger.



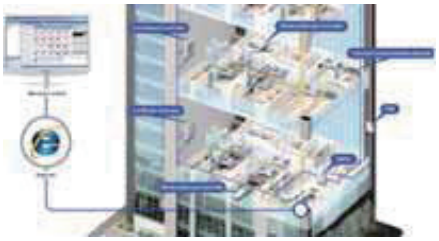
Optimised Heat Exchanger

Combination of optimised coil path and different types of fin design for upper and lower parts of the condenser evens out the airflow profile to optimise the heat transfer process.



Extended Piping Length Limits

Allows extended piping length of up to 220 m, and units will still give a great performance over wide areas. With this technology, installation is available with a maximum height level of 110 m, which is equivalent to 20 stories (each story is considered 5 m high).



Smart management

Further improves system's energy efficiency due to precise indoor climate control. Web-based remote monitoring and management system allows quick and easy HVAC control and breakdown alert.

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Eurovent Certified Performance

Samsung DVM S had become the 1st VRF Product to be certified by Eurovent, the European Committee of HVAC&R, in March 2014.

Contents

1. Combination Table

Premium Compact

System Model			Capacity of Single Unit (HP)									
Capa	Code	No. of Modules	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP
8HP	AM080JXVHGR/ET	1	1									
10HP	AM100JXVHGR/ET	1		1								
12HP	AM120JXVHGR/ET	1			1							
14HP	AM140JXVHGR/ET	1				1						
16HP	AM160JXVHGR/ET	1					1					
18HP	AM180JXVHGR/ET	1						1				
20HP	AM200JXVHGR/ET	1							1			
22HP	AM220JXVHGR/ET	1								1		
24HP	AM240MXVGNR/ET	1									1	
26HP	AM260MXVGNR/ET	1										1
28HP	AM280MXVGNR3ET	2			1		1					
30HP	AM300MXVGNR3ET	2			1			1				
32HP	AM320MXVGNR3ET	2			1				1			
34HP	AM340MXVGNR3ET	2			1					1		
36HP	AM360MXVGNR3ET	2				1				1		
38HP	AM380MXVGNR3ET	2					1			1		
40HP	AM400MXVGNR3ET	2						1		1		
42HP	AM420MXVGNR3ET	2							1	1		
44HP	AM440MXVGNR3ET	2								2		
46HP	AM460MXVGNR3ET	2								1	1	
48HP	AM480MXVGNR3ET	2								1		1
50HP	AM500MXVGNR3ET	2									1	1
52HP	AM520MXVGNR3ET	2										2
54HP	AM540MXVGNR3ET	3			1				1	1		
56HP	AM560MXVGNR3ET	3			1					2		
58HP	AM580MXVGNR3ET	3				1				2		
60HP	AM600MXVGNR3ET	3					1			2		
62HP	AM620MXVGNR3ET	3						1		2		
64HP	AM640MXVGNR3ET	3							1	2		
66HP	AM660MXVGNR3ET	3								3		
68HP	AM680MXVGNR3ET	3								2	1	
70HP	AM700MXVGNR3ET	3								2		1
72HP	AM720MXVGNR3ET	3								1	1	1
74HP	AM740MXVGNR3ET	3								1		2
76HP	AM760MXVGNR3ET	3									1	2
78HP	AM780MXVGNR3ET	3										3
80HP	AM800MXVGNR3ET	4			1					2	1	

NOTE

- 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 × Σ(Outdoor unit capacity) ≤ Total capacity of the connected indoor units ≤ 1.3 × Σ(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.
- In case of combining modules more than 80HP, please consult the manufacturer when connecting the indoor unit and deciding on piping length in accordance with design of the building.

1. Combination Table

Premium Energy Efficiency

System Model			Capacity of Single Unit (HP)									
Capa	Code	No. of Modules	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP
8HP	AM080JXVHGR/ET	1	1									
10HP	AM100JXVHGR/ET	1		1								
12HP	AM120JXVHGR/ET	1			1							
14HP	AM140JXVHGR/ET	1				1						
16HP	AM160JXVHGR/ET	1					1					
18HP	AM180JXVHGR/ET	1						1				
20HP	AM200JXVHGR/ET	1							1			
22HP	AM220MXVGNR4ET	2		1	1							
24HP	AM240MXVGNR4ET	2			2							
26HP	AM260MXVGNR4ET	2	1					1				
28HP	AM280MXVGNR4ET	2	1						1			
30HP	AM300MXVGNR4ET	2			1			1				
32HP	AM320MXVGNR4ET	2				1		1				
34HP	AM340MXVGNR4ET	3	2					1				
36HP	AM360MXVGNR4ET	2						2				
38HP	AM380MXVGNR4ET	2						1	1			
40HP	AM400MXVGNR4ET	3	1			1		1				
42HP	AM420MXVGNR4ET	3	1			1			1			
44HP	AM440MXVGNR4ET	3	1					2				
46HP	AM460MXVGNR4ET	3	1					1	1			
48HP	AM480MXVGNR4ET	3	1						2			
50HP	AM500MXVGNR4ET	3				1		2				
52HP	AM520MXVGNR4ET	3	1					1				1
54HP	AM540MXVGNR4ET	3	1						1			1
56HP	AM560MXVGNR4ET	3			1			1				1
58HP	AM580MXVGNR4ET	3	1								1	1
60HP	AM600MXVGNR4ET	3						2			1	
62HP	AM620MXVGNR4ET	4	1					3				
64HP	AM640MXVGNR4ET	4	1					2	1			
66HP	AM660MXVGNR4ET	4			1			3				
68HP	AM680MXVGNR4ET	4				1		3				
70HP	AM700MXVGNR4ET	4	1					2				1
72HP	AM720MXVGNR4ET	4						4				
74HP	AM740MXVGNR4ET	4						3	1			
76HP	AM760MXVGNR4ET	4						2	2			
78HP	AM780MXVGNR4ET	4						1	3			
80HP	AM800MXVGNR4ET	4						3				1

NOTE

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- Total capacity of the connected indoor units can be allowed from 50% to 130% of the total outdoor unit capacity.
  0.5 × Σ(Outdoor unit capacity) ≤ Total capacity of the connected indoor units ≤ 1.3 × Σ(Outdoor unit capacity)

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  ※ Maximum 32 Wall-mount type indoor units with EEV (AM✻✻✻✻NQDEH✻✻✻, AM✻✻✻JNVDKH✻✻✻) can be connected.
- In case of combining modules more than 80HP, please consult the manufacturer when connecting the indoor unit and deciding on piping length in accordance with design of the building.

1. Combination Table

External Appearance

Premium compact

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
8 10 12	AM080JXVHGR/ET AM100JXVHGR/ET AM120JXVHGR/ET		14 16 18 20 22	AM140JXVHGR/ET AM160JXVHGR/ET AM180JXVHGR/ET AM200JXVHGR/ET AM220JXVHGR/ET	
24 26	AM240MXVGNR/ET AM260MXVGNR/ET		28 30 32 34	AM280MXVGNR3ET AM300MXVGNR3ET AM320MXVGNR3ET AM340MXVGNR3ET	
36 38 40 42 44	AM360MXVGNR3ET AM380MXVGNR3ET AM400MXVGNR3ET AM420MXVGNR3ET AM440MXVGNR3ET		46 48	AM460MXVGNR3ET AM480MXVGNR3ET	
50 52	AM500MXVGNR3ET AM520MXVGNR3ET		54 56	AM540MXVGNR3ET AM560MXVGNR3ET	
58 60 62 64 66	AM580MXVGNR3ET AM600MXVGNR3ET AM620MXVGNR3ET AM640MXVGNR3ET AM660MXVGNR3ET		68 70	AM680MXVGNR3ET AM700MXVGNR3ET	
72 74	AM720MXVGNR3ET AM740MXVGNR3ET		76 78	AM760MXVGNR3ET AM780MXVGNR3ET	
80	AM800MXVGNR3ET				

1. Combination Table

External Appearance

Premium Energy Efficiency

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
8 10 12	AM080JXVHGR/ET AM100JXVHGR/ET AM120JXVHGR/ET		14 16 18 20	AM140JXVHGR/ET AM160JXVHGR/ET AM180JXVHGR/ET AM200JXVHGR/ET	
22 24	AM220MXVGNR4ET AM240MXVGNR4ET		26 28 30	AM260MXVGNR4ET AM280MXVGNR4ET AM300MXVGNR4ET	
32 36 38	AM320MXVGNR4ET AM360MXVGNR4ET AM380MXVGNR4ET		34	AM340MXVGNR4ET	
40 42 44 46 48	AM400MXVGNR4ET AM420MXVGNR4ET AM440MXVGNR4ET AM460MXVGNR4ET AM480MXVGNR4ET		50	AM500MXVGNR4ET	
52 54 56	AM520MXVGNR4ET AM540MXVGNR4ET AM560MXVGNR4ET		58	AM580MXVGNR4ET	
60	AM600MXVGNR4ET		62 64 66	AM620MXVGNR4ET AM640MXVGNR4ET AM660MXVGNR4ET	
68 72 74 76 78	AM680MXVGNR4ET AM720MXVGNR4ET AM740MXVGNR4ET AM760MXVGNR4ET AM780MXVGNR4ET		70	AM700MXVGNR4ET	
80	AM800MXVGNR4ET				

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

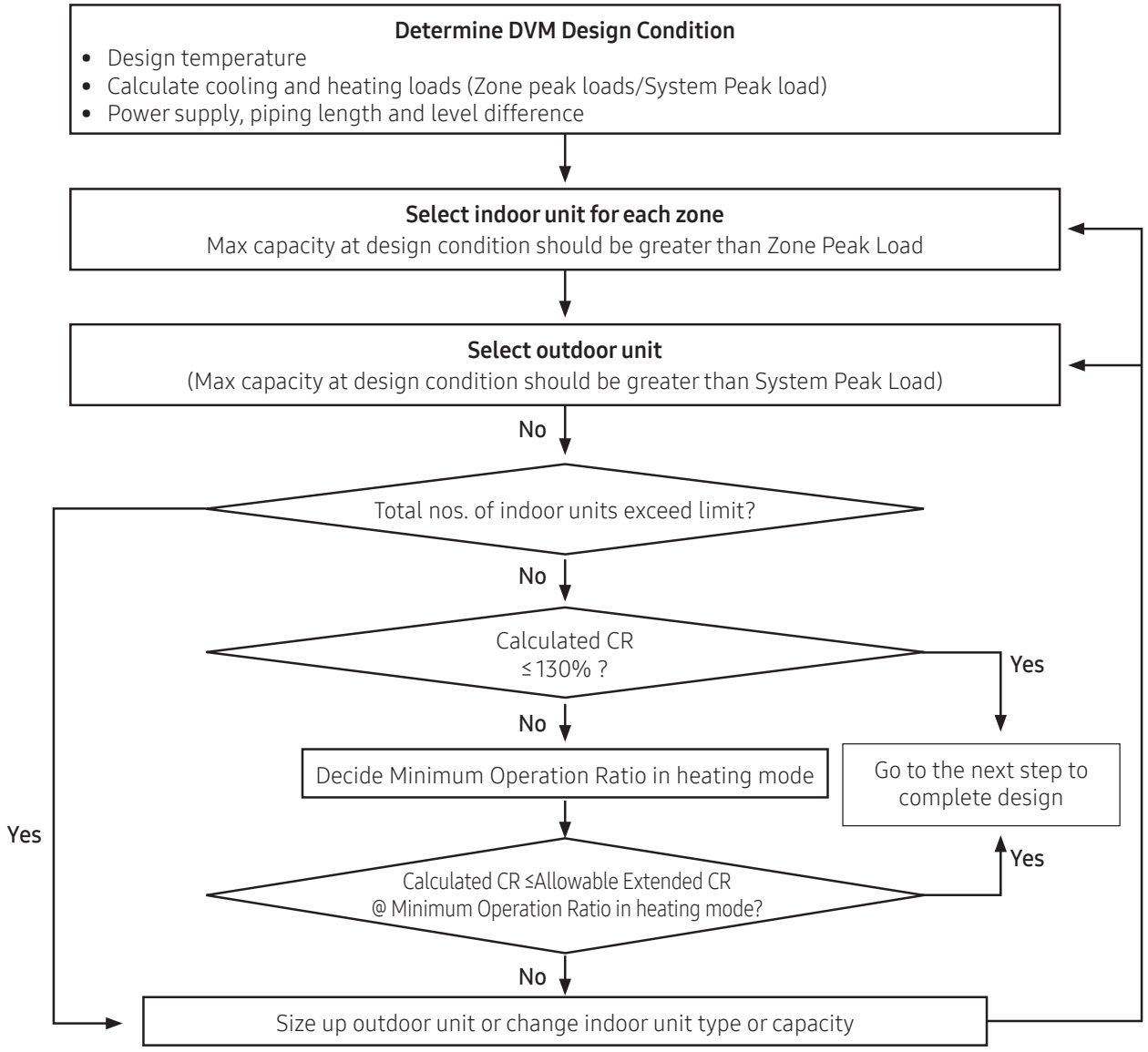


Fig. 1 Design & Selection Procedure for Extended Combination Ratio

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%

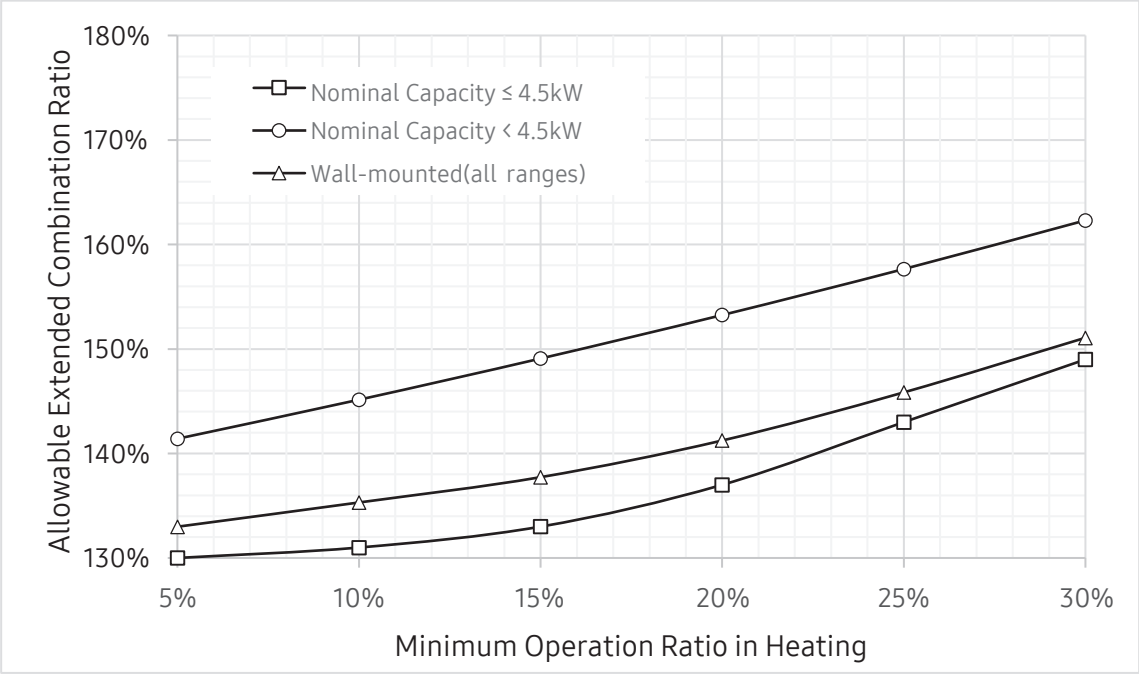


Fig. 2 Allowable CR with respect to indoor unit type as operation ratio increases

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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM080JXVHGR/ET	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	8	10	12
	Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
		Heating (Rated)	kW	22.4	28.0	33.6
		Heating (Max)	kW	25.2	31.5	37.8
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 (Ducted)	Cooling (Rated)	kW	4.59	6.22	7.57
		Heating (Rated)	kW	4.08	5.23	6.72
		Heating (Max)	kW	4.89	6.27	8.05
	Power Input (Non-Ducted)	Cooling (Rated)	kW	5.50	7.87	9.80
		Heating (Rated)	kW	4.82	6.47	7.81
		Heating (Max)	kW	5.78	7.76	9.36
	Current Input (Ducted)	Cooling (Rated)	A	7.40	10.00	12.10
		Heating (Rated)	A	6.50	8.40	10.80
		Heating (Max)	A	7.80	10.00	12.90
	Current Input (Non-Ducted)	Cooling (Rated)	A	8.80	12.60	15.70
		Heating (Rated)	A	7.70	10.40	12.50
		Heating (Max)	A	9.30	12.40	15.00
	Current	Minimum Ssc	MVA	3.1	4.5	5.3
		MCA	A	18.0	21.1	25.0
		MFA	A	25	32	32
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.88	4.50	4.44
	COP (Ducted)	Heating (Rated)	W/W	5.49	5.35	5.00
		Heating (Max)	W/W	5.15	5.02	4.70
	EER (Non-Ducted)	Cooling (Rated)	W/W	4.07	3.56	3.43
	COP (Non-Ducted)	Heating (Rated)	W/W	4.65	4.33	4.30
		Heating (Max)	W/W	4.36	4.06	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	5.18 x 1	6.39 x 1	6.39 x 1
	Model Name		-	DS-GB052FAV* x 1	DS-GB066FAV* x 1	DS-GB066FAV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	1	1	1
	Air Flow Rate		m^3/min	170	170	200
			l/s	2,833	2,833	3,333
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	830 x 1	830 x 1	830 x 1
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)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM080JXVHGR/ET	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5	6.5	6.5
			tCO_2e	13.57	13.57	13.57
Sound	Sound Pressure	Cooling	dB(A)	57	58	62
		Heating	dB(A)	59	60	64
	Sound Power		dB(A)	77	79	81
External Dimension	Net Weight		kg	201.0	201.0	201.0
	Shipping Weight		kg	217.0	217.0	217.0
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	948 x 1,887 x 832	948 x 1,887 x 832	948 x 1,887 x 832
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	14	16	18
	Capacity	Cooling (Rated)	kW	40.0	45.0	50.4
		Heating (Rated)	kW	40.0	45.0	50.4
		Heating (Max)	kW	45.0	50.4	56.7
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 (Ducted)	Cooling (Rated)	kW	8.89	10.92	12.32
		Heating (Rated)	kW	8.55	8.95	10.02
		Heating (Max)	kW	10.24	10.72	12.01
	Power Input (Non-Ducted)	Cooling (Rated)	kW	11.59	12.78	13.92
		Heating (Rated)	kW	9.80	11.11	11.69
		Heating (Max)	kW	11.75	13.33	14.03
	Current Input (Ducted)	Cooling (Rated)	A	14.30	17.50	19.80
		Heating (Rated)	A	13.70	14.40	16.10
		Heating (Max)	A	16.40	17.20	19.30
	Current Input (Non-Ducted)	Cooling (Rated)	A	18.60	20.50	22.30
		Heating (Rated)	A	15.70	17.80	18.70
		Heating (Max)	A	18.80	21.40	22.50
	Current	Minimum Ssc	MVA	5.3	6.6	7.6
		MCA	A	25.0	32.0	39.2
		MFA	A	32	40	50
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.50	4.12	4.09
	COP (Ducted)	Heating (Rated)	W/W	4.68	5.03	5.03
		Heating (Max)	W/W	4.39	4.70	4.72
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.45	3.52	3.62
	COP (Non-Ducted)	Heating (Rated)	W/W	4.08	4.05	4.31
		Heating (Max)	W/W	3.83	3.78	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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 2	Inverter Scroll x 2
	Output		kW x n	6.39 x 1	4.39 x 2	6.39 x 2
	Model Name		-	DS-GB066FAV* x 1	DS-GA046FAV* x 2	DS-GB066FAV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	900 x 2	1,100 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m^3/min	255	255	290
			l/s	4,250	4,250	4,833
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2
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)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4	9.4	8.4
			tCO_2e	19.63	19.63	17.54
Sound	Sound Pressure	Cooling	dB(A)	61	62	63
		Heating	dB(A)	63	66	67
	Sound Power		dB(A)	81	82	85
External Dimension	Net Weight		kg	259.0	290.0	299.0
	Shipping Weight		kg	278.0	309.0	318.0
	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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM200JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50/60
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	20	22	24
	Capacity	Cooling (Rated)	kW	56.0	61.6	67.2
		Heating (Rated)	kW	56.0	61.6	67.2
		Heating (Max)	kW	63.0	69.3	75.6
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 (Ducted)	Cooling (Rated)	kW	13.83	15.88	18.61
		Heating (Rated)	kW	11.22	12.91	13.20
		Heating (Max)	kW	13.44	15.47	15.82
	Power Input (Non-Ducted)	Cooling (Rated)	kW	16.42	19.62	19.94
		Heating (Rated)	kW	13.53	15.71	16.59
		Heating (Max)	kW	16.20	18.83	19.89
	Current Input (Ducted)	Cooling (Rated)	A	22.20	25.50	29.80
		Heating (Rated)	A	18.00	20.70	21.20
		Heating (Max)	A	21.60	24.80	25.40
	Current Input (Non-Ducted)	Cooling (Rated)	A	26.30	31.50	32.00
		Heating (Rated)	A	21.70	25.20	26.60
		Heating (Max)	A	26.00	30.20	31.90
	Current	Minimum Ssc	MVA	8.0	8.6	12.5
		MCA	A	42.0	44.6	55.0
		MFA	A	63	63	63
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.05	3.88	3.61
	COP (Ducted)	Heating (Rated)	W/W	4.99	4.77	5.09
		Heating (Max)	W/W	4.69	4.48	4.78
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.41	3.14	3.37
	COP (Non-Ducted)	Heating (Rated)	W/W	4.14	3.92	4.05
		Heating (Max)	W/W	3.89	3.68	3.80
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	6.39 x 2	6.39 x 2	6.76 x 2
	Model Name		-	DS-GB066FAV* x 2	DS-GB066FAV* x 2	DS-GB070FAV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	1,100 x 2	1,100 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m^3/min	290	290	340
			l/s	4,833	4,833	5,667
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM200JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	11.0	11.0	14.0
			tCO_2e	22.97	22.97	29.23
Sound	Sound Pressure	Cooling	dB(A)	64	65	69
		Heating	dB(A)	67	67	71
	Sound Power		dB(A)	86	88	90
External Dimension	Net Weight		kg	314.0	314.0	350.0
	Shipping Weight		kg	333.0	333.0	372.0
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,987 x 832
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM260MXVGNR/ET	AM280MXVGNR3ET	AM300MXVGNR3ET
	Outdoor unit module 1			-	AM120JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			-	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50/60	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	26	28	30
	Capacity	Cooling (Rated)	kW	72.8	78.6	84.0
		Heating (Rated)	kW	72.8	78.6	84.0
		Heating (Max)	kW	81.9	88.2	94.5
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 (Ducted)	Cooling (Rated)	kW	20.92	18.49	19.89
		Heating (Rated)	kW	15.17	15.67	16.74
		Heating (Max)	kW	18.18	18.77	20.06
	Power Input (Non-Ducted)	Cooling (Rated)	kW	23.04	22.58	23.72
		Heating (Rated)	kW	19.01	18.92	19.50
		Heating (Max)	kW	22.81	22.69	23.39
	Current Input (Ducted)	Cooling (Rated)	A	33.60	29.60	31.90
		Heating (Rated)	A	24.30	25.20	26.90
		Heating (Max)	A	29.10	30.10	32.20
	Current Input (Non-Ducted)	Cooling (Rated)	A	37.00	36.20	38.00
		Heating (Rated)	A	30.50	30.30	31.20
		Heating (Max)	A	36.60	36.40	37.50
	Current	Minimum Ssc	MVA	12.2	11.9	12.9
		MCA	A	60.0	57.0	64.2
		MFA	A	75	75	75
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.48	4.25	4.22
	COP (Ducted)	Heating (Rated)	W/W	4.80	5.02	5.02
		Heating (Max)	W/W	4.50	4.70	4.71
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.16	3.48	3.54
	COP (Non-Ducted)	Heating (Rated)	W/W	3.83	4.15	4.31
		Heating (Max)	W/W	3.59	3.89	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	7.81 x 2	(6.39 x 1) x 1 + (4.39 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1
	Model Name		-	DS4GJ5080FV* x 2	(DS-GB066FAV* x 1) x 1 + (DS-GA046FAV* x 2) x 1	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,400 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	3	3
	Air Flow Rate		m^3/min	340	200 x 1 + 255 x 1	200 x 1 + 290 x 1
			l/s	5,667	3,333 x 1 + 4,250 x 1	3,333 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	(830 x 1) x 1 + (620 x 2) x 1	(830 x 1) x 1 + (620 x 2) x 1
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM260MXVGNR/ET	AM280MXVGNR3ET	AM300MXVGNR3ET
	Outdoor unit module 1			-	AM120JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			-	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	14.0	6.5 x 1 + 9.4 x 1	6.5 x 1 + 8.4 x 1
			tCO_2e	29.23	33.20	31.11
Sound	Sound Pressure	Cooling	dB(A)	69	65	66
		Heating	dB(A)	71	68	69
	Sound Power		dB(A)	90	85	86
External Dimension	Net Weight		kg	358.0	201.0 x 1 + 290.0 x 1	201.0 x 1 + 299.0 x 1
	Shipping Weight		kg	380.0	217.0 x 1 + 309.0 x 1	217.0 x 1 + 318.0 x 1
	Net Dimensions (WxHxD)		mm	1,295 x 1,795 x 765	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,987 x 832	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM320MXVGNR3ET	AM340MXVGNR3ET	AM360MXVGNR3ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM120JXVHGR/ET	AM140JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	32	34	36
	Capacity	Cooling (Rated)	kW	89.6	95.2	101.6
		Heating (Rated)	kW	89.6	95.2	101.6
		Heating (Max)	kW	100.8	107.1	114.3
Maximum number of connectable indoor units			EA	58	61	64
Total capacity of the connected Indoor Units		Min.	kW	44.8	47.6	50.8
		Max.	kW	116.5	123.8	132.1
Power	Power Input (Ducted)	Cooling (Rated)	kW	21.40	23.45	24.77
		Heating (Rated)	kW	17.94	19.63	21.46
		Heating (Max)	kW	21.49	23.52	25.71
	Power Input (Non-Ducted)	Cooling (Rated)	kW	26.22	29.42	31.21
		Heating (Rated)	kW	21.34	23.52	25.51
		Heating (Max)	kW	25.56	28.19	30.58
	Current Input (Ducted)	Cooling (Rated)	A	34.30	37.60	39.80
		Heating (Rated)	A	28.80	31.50	34.40
		Heating (Max)	A	34.50	37.70	41.20
	Current Input (Non-Ducted)	Cooling (Rated)	A	42.00	47.20	50.10
		Heating (Rated)	A	34.20	37.70	40.90
		Heating (Max)	A	41.00	45.20	49.00
	Current	Minimum Ssc	MVA	13.3	13.9	13.9
		MCA	A	67.0	69.6	69.6
		MFA	A	75	80	80
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.19	4.06	4.10
	COP (Ducted)	Heating (Rated)	W/W	4.99	4.85	4.73
		Heating (Max)	W/W	4.69	4.55	4.45
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.42	3.24	3.26
	COP (Non-Ducted)	Heating (Rated)	W/W	4.20	4.05	3.98
		Heating (Max)	W/W	3.94	3.80	3.74
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	3	3	4
	Air Flow Rate		m^3/min	200 x 1 + 290 x 1	200 x 1 + 290 x 1	255 x 1 + 290 x 1
			l/s	3,333 x 1 + 4,833 x 1	3,333 x 1 + 4,833 x 1	4,250 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 1	(830 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM320MXVGNR3ET	AM340MXVGNR3ET	AM360MXVGNR3ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM120JXVHGR/ET	AM140JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 11.0 x 1	6.5 x 1 + 11.0 x 1	9.4 x 1 + 11.0 x 1
			tCO_2e	36.54	36.54	42.60
Sound	Sound Pressure	Cooling	dB(A)	66	67	66
		Heating	dB(A)	69	69	68
	Sound Power		dB(A)	87	89	89
External Dimension	Net Weight		kg	201.0 x 1 + 314.0 x 1	201.0 x 1 + 314.0 x 1	259.0 x 1 + 314.0 x 1
	Shipping Weight		kg	217.0 x 1 + 333.0 x 1	217.0 x 1 + 333.0 x 1	278.0 x 1 + 333.0 x 1
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 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
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM380MXVGNR3ET	AM400MXVGNR3ET	AM420MXVGNR3ET
	Outdoor unit module 1			AM160JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	38	40	42
	Capacity	Cooling (Rated)	kW	106.6	112.0	117.6
		Heating (Rated)	kW	106.6	112.0	117.6
		Heating (Max)	kW	119.7	126.0	132.3
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	53.3	56.0	58.8
		Max.	kW	138.6	145.6	152.9
Power	Power Input (Ducted)	Cooling (Rated)	kW	26.80	28.20	29.71
		Heating (Rated)	kW	21.86	22.93	24.13
		Heating (Max)	kW	26.19	27.48	28.91
	Power Input (Non-Ducted)	Cooling (Rated)	kW	32.40	33.54	36.04
		Heating (Rated)	kW	26.82	27.40	29.24
		Heating (Max)	kW	32.16	32.86	35.03
	Current Input (Ducted)	Cooling (Rated)	A	43.00	45.30	47.70
		Heating (Rated)	A	35.10	36.80	38.70
		Heating (Max)	A	42.00	44.10	46.40
	Current Input (Non-Ducted)	Cooling (Rated)	A	52.00	53.80	57.80
		Heating (Rated)	A	43.00	43.90	46.90
		Heating (Max)	A	51.60	52.70	56.20
	Current	Minimum Ssc	MVA	15.2	16.2	16.6
		MCA	A	76.6	83.8	86.6
		MFA	A	90	100	100
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.98	3.97	3.96
	COP (Ducted)	Heating (Rated)	W/W	4.88	4.88	4.87
		Heating (Max)	W/W	4.57	4.59	4.58
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.29	3.34	3.26
	COP (Non-Ducted)	Heating (Rated)	W/W	3.97	4.09	4.02
		Heating (Max)	W/W	3.72	3.83	3.78
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(4.39 x 2) x 1 + (6.39 x 2) x 1	(6.39 x 2) x 2	(6.39 x 2) x 2
	Model Name		-	(DS-GA046FAV* x 2) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(900 x 2) x 1 + (1,100 x 2) x 1	(1,100 x 2) x 2	(1,100 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	4
	Air Flow Rate		m^3/min	255 x 1 + 290 x 1	290 x 2	290 x 2
			l/s	4,250 x 1 + 4,833 x 1	4,833 x 2	4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
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
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM380MXVGNR3ET	AM400MXVGNR3ET	AM420MXVGNR3ET
	Outdoor unit module 1			AM160JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4 x 1 + 11.0 x 1	8.4 x 1 + 11.0 x 1	11.0 x 2
			tCO_2e	42.60	40.51	45.94
Sound	Sound Pressure	Cooling	dB(A)	67	67	68
		Heating	dB(A)	70	70	70
	Sound Power		dB(A)	89	90	90
External Dimension	Net Weight		kg	290.0 x 1 + 314.0 x 1	299.0 x 1 + 314.0 x 1	314.0 x 2
	Shipping Weight		kg	309.0 x 1 + 333.0 x 1	318.0 x 1 + 333.0 x 1	333.0 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
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM440MXVGNR3ET	AM460MXVGNR3ET	AM480MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM240MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	44	46	48
	Capacity	Cooling (Rated)	kW	123.2	128.8	134.4
		Heating (Rated)	kW	123.2	128.8	134.4
		Heating (Max)	kW	138.6	144.9	151.2
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 (Ducted)	Cooling (Rated)	kW	31.76	34.49	36.80
		Heating (Rated)	kW	25.82	26.11	28.08
		Heating (Max)	kW	30.94	31.29	33.65
	Power Input (Non-Ducted)	Cooling (Rated)	kW	39.24	39.56	42.66
		Heating (Rated)	kW	31.42	32.30	34.72
		Heating (Max)	kW	37.66	38.72	41.64
	Current Input (Ducted)	Cooling (Rated)	A	51.00	55.30	59.10
		Heating (Rated)	A	41.40	41.90	45.00
		Heating (Max)	A	49.60	50.20	53.90
	Current Input (Non-Ducted)	Cooling (Rated)	A	63.00	63.50	68.50
		Heating (Rated)	A	50.40	51.80	55.70
		Heating (Max)	A	60.40	62.10	66.80
	Current	Minimum Ssc	MVA	17.2	21.1	20.8
		MCA	A	89.2	99.6	104.6
		MFA	A	100	125	125
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.88	3.73	3.65
	COP (Ducted)	Heating (Rated)	W/W	4.77	4.93	4.79
		Heating (Max)	W/W	4.48	4.63	4.49
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.14	3.26	3.15
	COP (Non-Ducted)	Heating (Rated)	W/W	3.92	3.99	3.87
		Heating (Max)	W/W	3.68	3.74	3.63
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 2) x 2	(6.39 x 2) x 1 + (6.76 x 2) x 1	(6.39 x 2) x 1 + (7.81 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 2) x 1 + (DS-GB070FAV* x 2) x 1	(DS-GB066FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1
	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 1 + (1,400 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	4
	Air Flow Rate		m^3/min	290 x 2	290 x 1 + 340 x 1	290 x 1 + 340 x 1
			l/s	4,833 x 2	4,833 x 1 + 5,667 x 1	4,833 x 1 + 5,667 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
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
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM440MXVGNR3ET	AM460MXVGNR3ET	AM480MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM240MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	11.0 x 2	11.0 x 1 + 14.0 x 1	11.0 x 1 + 14.0 x 1
			tCO_2e	45.94	52.20	52.20
Sound	Sound Pressure	Cooling	dB(A)	68	70	70
		Heating	dB(A)	70	72	72
	Sound Power		dB(A)	91	92	92
External Dimension	Net Weight		kg	314.0 x 2	314.0 x 1 + 350.0 x 1	314.0 x 1 + 358.0 x 1
	Shipping Weight		kg	333.0 x 2	333.0 x 1 + 372.0 x 1	333.0 x 1 + 380.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM500MXVGNR3ET	AM520MXVGNR3ET	AM540MXVGNR3ET
	Outdoor unit module 1			AM240MXVGNR/ET	AM260MXVGNR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM260MXVGNR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			-	-	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	50	52	54
	Capacity	Cooling (Rated)	kW	140.0	145.6	151.2
		Heating (Rated)	kW	140.0	145.6	151.2
		Heating (Max)	kW	157.5	163.8	170.1
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 (Ducted)	Cooling (Rated)	kW	39.53	41.84	37.28
		Heating (Rated)	kW	28.37	30.34	30.85
		Heating (Max)	kW	34.00	36.36	36.96
	Power Input (Non-Ducted)	Cooling (Rated)	kW	42.98	46.08	45.84
		Heating (Rated)	kW	35.60	38.02	37.05
		Heating (Max)	kW	42.70	45.62	44.39
	Current Input (Ducted)	Cooling (Rated)	A	63.40	67.20	59.80
		Heating (Rated)	A	45.50	48.60	49.50
		Heating (Max)	A	54.50	58.20	59.30
	Current Input (Non-Ducted)	Cooling (Rated)	A	69.00	74.00	73.50
		Heating (Rated)	A	57.10	61.00	59.40
		Heating (Max)	A	68.50	73.20	71.20
	Current	Minimum Ssc	MVA	24.7	24.4	21.9
		MCA	A	115.0	120.0	111.6
		MFA	A	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.54	3.48	4.06
	COP (Ducted)	Heating (Rated)	W/W	4.93	4.80	4.90
		Heating (Max)	W/W	4.63	4.50	4.60
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.26	3.16	3.30
	COP (Non-Ducted)	Heating (Rated)	W/W	3.93	3.83	4.08
		Heating (Max)	W/W	3.69	3.59	3.83
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.76 x 2) x 1 + (7.81 x 2) x 1	(7.81 x 2) x 2	(6.39 x 1) x 1 + (6.39 x 2) x 2
	Model Name		-	(DS-GB070FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1	(DS4GJ5080FV* x 2) x 2	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 1 + (1,400 x 2) x 1	(1,400 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	5
	Air Flow Rate		m^3/min	340 x 2	340 x 2	200 x 1 + 290 x 2
			l/s	5,667 x 2	5,667 x 2	3,333 x 1 + 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM500MXVGNR3ET	AM520MXVGNR3ET	AM540MXVGNR3ET
	Outdoor unit module 1			AM240MXVGNR/ET	AM260MXVGNR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM260MXVGNR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			-	-	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	14.0 x 2	14.0 x 2	6.5 x 1 + 11.0 x 2
			tCO_2e	58.46	58.46	59.51
Sound	Sound Pressure	Cooling	dB(A)	72	72	69
		Heating	dB(A)	74	74	71
	Sound Power		dB(A)	93	93	91
External Dimension	Net Weight		kg	350.0 x 1 + 358.0 x 1	358.0 x 2	201.0 x 1 + 314.0 x 2
	Shipping Weight		kg	372.0 x 1 + 380.0 x 1	380.0 x 2	217.0 x 1 + 333.0 x 2
	Net Dimensions (WxHxD)		mm	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM560MXVGNR3ET	AM580MXVGNR3ET	AM600MXVGNR3ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM140JXVHGR/ET	AM160JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	56	58	60
	Capacity	Cooling (Rated)	kW	156.8	163.2	168.2
		Heating (Rated)	kW	156.8	163.2	168.2
		Heating (Max)	kW	176.4	183.6	189.0
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	78.4	81.6	84.1
		Max.	kW	203.8	212.2	218.7
Power	Power Input (Ducted)	Cooling (Rated)	kW	39.33	40.65	42.68
		Heating (Rated)	kW	32.54	34.37	34.77
		Heating (Max)	kW	38.99	41.18	41.66
	Power Input (Non-Ducted)	Cooling (Rated)	kW	49.04	50.83	52.02
		Heating (Rated)	kW	39.23	41.22	42.53
		Heating (Max)	kW	47.02	49.41	50.99
	Current Input (Ducted)	Cooling (Rated)	A	63.10	65.30	68.50
		Heating (Rated)	A	52.20	55.10	55.80
		Heating (Max)	A	62.50	66.00	66.80
	Current Input (Non-Ducted)	Cooling (Rated)	A	78.70	81.60	83.50
		Heating (Rated)	A	62.90	66.10	68.20
		Heating (Max)	A	75.40	79.20	81.80
	Current	Minimum Ssc	MVA	22.5	22.5	23.8
		MCA	A	114.2	114.2	121.2
		MFA	A	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.99	4.01	3.94
	COP (Ducted)	Heating (Rated)	W/W	4.82	4.75	4.84
		Heating (Max)	W/W	4.52	4.46	4.54
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.20	3.21	3.23
	COP (Non-Ducted)	Heating (Rated)	W/W	4.00	3.96	3.95
		Heating (Max)	W/W	3.75	3.72	3.71
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 2	(6.39 x 1) x 1 + (6.39 x 2) x 2	(4.39 x 2) x 1 + (6.39 x 2) x 2
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GA046FAV* x 2) x 1 + (DS-GB066FAV* 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	(900 x 2) x 1 + (1,100 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	6	6
	Air Flow Rate		m^3/min	200 x 1 + 290 x 2	255 x 1 + 290 x 2	255 x 1 + 290 x 2
			l/s	3,333 x 1 + 4,833 x 2	4,250 x 1 + 4,833 x 2	4,250 x 1 + 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3	(620 x 2) x 3
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM560MXVGNR3ET	AM580MXVGNR3ET	AM600MXVGNR3ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM140JXVHGR/ET	AM160JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 11.0 x 2	9.4 x 1 + 11.0 x 2	9.4 x 1 + 11.0 x 2
			tCO_2e	59.51	65.56	65.56
Sound	Sound Pressure	Cooling	dB(A)	69	69	69
		Heating	dB(A)	71	71	71
	Sound Power		dB(A)	91	91	92
External Dimension	Net Weight		kg	201.0 x 1 + 314.0 x 2	259.0 x 1 + 314.0 x 2	290.0 x 1 + 314.0 x 2
	Shipping Weight		kg	217.0 x 1 + 333.0 x 2	278.0 x 1 + 333.0 x 2	309.0 x 1 + 333.0 x 2
	Net Dimensions (WxHxD)		mm	(880 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	(1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM620MXVGNR3ET	AM640MXVGNR3ET	AM660MXVGNR3ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM200JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	62	64	66
	Capacity	Cooling (Rated)	kW	173.6	179.2	184.8
		Heating (Rated)	kW	173.6	179.2	184.8
		Heating (Max)	kW	195.3	201.6	207.9
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 (Ducted)	Cooling (Rated)	kW	44.08	45.59	47.64
		Heating (Rated)	kW	35.84	37.04	38.73
		Heating (Max)	kW	42.95	44.38	46.41
	Power Input (Non-Ducted)	Cooling (Rated)	kW	53.16	55.66	58.86
		Heating (Rated)	kW	43.11	44.95	47.13
		Heating (Max)	kW	51.69	53.86	56.49
	Current Input (Ducted)	Cooling (Rated)	A	70.80	73.20	76.50
		Heating (Rated)	A	57.50	59.40	62.10
		Heating (Max)	A	68.90	71.20	74.40
	Current Input (Non-Ducted)	Cooling (Rated)	A	85.30	89.30	94.50
		Heating (Rated)	A	69.10	72.10	75.60
		Heating (Max)	A	82.90	86.40	90.60
	Current	Minimum Ssc	MVA	24.8	25.2	25.8
		MCA	A	128.4	131.2	133.8
		MFA	A	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.94	3.93	3.88
	COP (Ducted)	Heating (Rated)	W/W	4.84	4.84	4.77
		Heating (Max)	W/W	4.55	4.54	4.48
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.27	3.22	3.14
	COP (Non-Ducted)	Heating (Rated)	W/W	4.03	3.99	3.92
		Heating (Max)	W/W	3.78	3.74	3.68
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 2) x 3	(6.39 x 2) x 3	(6.39 x 2) x 3
	Model Name		-	(DS-GB066FAV* x 2) x 3	(DS-GB066FAV* x 2) x 3	(DS-GB066FAV* 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	6	6	6
	Air Flow Rate		m^3/min	290 x 3	290 x 3	290 x 3
			l/s	4,833 x 3	4,833 x 3	4,833 x 3
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
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
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM620MXVGNR3ET	AM640MXVGNR3ET	AM660MXVGNR3ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM200JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	8.4 x 1 + 11.0 x 2	11.0 x 3	11.0 x 3
			tCO_2e	63.48	68.90	68.90
Sound	Sound Pressure	Cooling	dB(A)	69	69	70
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	92	92	93
External Dimension	Net Weight		kg	299.0 x 1 + 314.0 x 2	314.0 x 3	314.0 x 3
	Shipping Weight		kg	318.0 x 1 + 333.0 x 2	333.0 x 3	333.0 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
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM680MXVGNR3ET	AM700MXVGNR3ET	AM720MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 3			AM240MXVGNR/ET	AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	68	70	72
	Capacity	Cooling (Rated)	kW	190.4	196.0	201.6
		Heating (Rated)	kW	190.4	196.0	201.6
		Heating (Max)	kW	214.2	220.5	226.8
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 (Ducted)	Cooling (Rated)	kW	50.37	52.68	55.41
		Heating (Rated)	kW	39.02	40.99	41.28
		Heating (Max)	kW	46.76	49.12	49.47
	Power Input (Non-Ducted)	Cooling (Rated)	kW	59.18	62.28	62.60
		Heating (Rated)	kW	48.01	50.43	51.31
		Heating (Max)	kW	57.55	60.47	61.53
	Current Input (Ducted)	Cooling (Rated)	A	80.80	84.60	88.90
		Heating (Rated)	A	62.60	65.70	66.20
		Heating (Max)	A	75.00	78.70	79.30
	Current Input (Non-Ducted)	Cooling (Rated)	A	95.00	100.00	100.50
		Heating (Rated)	A	77.00	80.90	82.30
		Heating (Max)	A	92.30	97.00	98.70
	Current	Minimum Ssc	MVA	29.7	29.4	33.3
		MCA	A	144.2	149.2	159.6
		MFA	A	175	175	175
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.78	3.72	3.64
	COP (Ducted)	Heating (Rated)	W/W	4.88	4.78	4.88
		Heating (Max)	W/W	4.58	4.49	4.58
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.22	3.15	3.22
	COP (Non-Ducted)	Heating (Rated)	W/W	3.97	3.89	3.93
		Heating (Max)	W/W	3.72	3.65	3.69
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 2) x 2 + (6.76 x 2) x 1	(6.39 x 2) x 2 + (7.81 x 2) x 1	(6.39 x 2) x 1 + (6.76 x 2) x 1 + (7.81 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 2) x 2 + (DS-GB070FAV* x 2) x 1	(DS-GB066FAV* x 2) x 2 + (DS4GJ5080FV* x 2) x 1	(DS-GB066FAV* x 2) x 1 + (DS-GB070FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 2 + (1,400 x 2) x 1	(1,100 x 2) x 2 + (1,400 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	6	6	6
	Air Flow Rate		m³/min	290 x 2 + 340 x 1	290 x 2 + 340 x 1	290 x 1 + 340 x 2
			l/s	4,833 x 2 + 5,667 x 1	4,833 x 2 + 5,667 x 1	4,833 x 1 + 5,667 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
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
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S	DVM S
Model Name				AM680MXVGNR3ET	AM700MXVGNR3ET	AM720MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM220JXVHGR/ET	AM220JXVHGR/ET
	Outdoor unit module 2			AM220JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 3			AM240MXVGNR/ET	AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	11.0 x 2 + 14.0 x 1	11.0 x 2 + 14.0 x 1	11.0 x 1 + 14.0 x 2
			tCO_2e	75.17	75.17	81.43
Sound	Sound Pressure	Cooling	dB(A)	72	72	73
		Heating	dB(A)	74	74	75
	Sound Power		dB(A)	94	94	94
External Dimension	Net Weight		kg	314.0 x 2 + 350.0 x 1	314.0 x 2 + 358.0 x 1	314.0 x 1 + 350.0 x 1 + 358.0 x 1
	Shipping Weight		kg	333.0 x 2 + 372.0 x 1	333.0 x 2 + 380.0 x 1	333.0 x 1 + 372.0 x 1 + 380.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S
Model Name				AM740MXVGNR3ET	AM760MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	74	76
	Capacity	Cooling (Rated)	kW	207.2	212.8
		Heating (Rated)	kW	207.2	212.8
		Heating (Max)	kW	233.1	239.4
Maximum number of connectable indoor units			EA	64	64
Total capacity of the connected Indoor Units		Min.	kW	103.6	106.4
		Max.	kW	269.4	276.6
Power	Power Input (Ducted)	Cooling (Rated)	kW	57.72	60.45
		Heating (Rated)	kW	43.25	43.54
		Heating (Max)	kW	51.83	52.18
	Power Input (Non-Ducted)	Cooling (Rated)	kW	65.70	66.02
		Heating (Rated)	kW	53.73	54.61
		Heating (Max)	kW	64.45	65.51
	Current Input (Ducted)	Cooling (Rated)	A	92.70	97.00
		Heating (Rated)	A	69.30	69.80
		Heating (Max)	A	83.00	83.60
	Current Input (Non-Ducted)	Cooling (Rated)	A	105.50	106.00
		Heating (Rated)	A	86.20	87.60
		Heating (Max)	A	103.40	105.10
	Current	Minimum Ssc	MVA	33.0	36.9
		MCA	A	164.6	175.0
		MFA	A	200	200
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.59	3.52
	COP (Ducted)	Heating (Rated)	W/W	4.79	4.89
		Heating (Max)	W/W	4.50	4.59
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.15	3.22
	COP (Non-Ducted)	Heating (Rated)	W/W	3.86	3.90
		Heating (Max)	W/W	3.62	3.65
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(6.39 x 2) x 1 + (7.81 x 2) x 2	(6.76 x 2) x 1 + (7.81 x 2) x 2
	Model Name		-	(DS-GB066FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 2	(DS-GB070FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 2
	Oil	Type	-	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 1 + (1,400 x 2) x 2	(1,100 x 2) x 1 + (1,400 x 2) x 2
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Top	Top
	Quantity		EA	6	6
	Air Flow Rate		m^3/min	290 x 1 + 340 x 2	340 x 3
			l/s	4,833 x 1 + 5,667 x 2	5,667 x 3
	External Static Pressure	Max.	mmAq	8	8
			Pa	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(620 x 2) x 3
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S
Model Name				AM740MXVGNR3ET	AM760MXVGNR3ET
	Outdoor unit module 1			AM220JXVHGR/ET	AM240MXVGNR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	40	40
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
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	11.0 x 1 + 14.0 x 2	14.0 x 3
			tCO_2e	81.43	87.70
Sound	Sound Pressure	Cooling	dB(A)	73	74
		Heating	dB(A)	75	76
	Sound Power		dB(A)	94	95
External Dimension	Net Weight		kg	314.0 x 1 + 358.0 x 2	350.0 x 1 + 358.0 x 2
	Shipping Weight		kg	333.0 x 1 + 380.0 x 2	372.0 x 1 + 380.0 x 2
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 3
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Type				DVM S	DVM S
Model Name				AM780MXVGNR3ET	AM800MXVGNR3ET
	Outdoor unit module 1			AM260MXVGNR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	AM240MXVGNR/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	78	80
	Capacity	Cooling (Rated)	kW	218.4	224.0
		Heating (Rated)	kW	218.4	224.0
		Heating (Max)	kW	245.7	252.0
Maximum number of connectable indoor units			EA	64	64
Total capacity of the connected Indoor Units		Min.	kW	109.2	112.0
		Max.	kW	283.9	291.2
Power	Power Input (Ducted)	Cooling (Rated)	kW	62.76	57.94
		Heating (Rated)	kW	45.51	45.74
		Heating (Max)	kW	54.54	54.81
	Power Input (Non-Ducted)	Cooling (Rated)	kW	69.12	68.98
		Heating (Rated)	kW	57.03	55.82
		Heating (Max)	kW	68.43	66.91
	Current Input (Ducted)	Cooling (Rated)	A	100.80	92.90
		Heating (Rated)	A	72.90	73.40
		Heating (Max)	A	87.30	87.90
	Current Input (Non-Ducted)	Cooling (Rated)	A	111.00	110.70
		Heating (Rated)	A	91.50	89.50
		Heating (Max)	A	109.80	107.30
	Current	Minimum Ssc	MVA	36.6	35.0
		MCA	A	180.0	169.2
		MFA	A	200	200
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.48	3.87
	COP (Ducted)	Heating (Rated)	W/W	4.80	4.90
		Heating (Max)	W/W	4.50	4.60
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.16	3.25
	COP (Non-Ducted)	Heating (Rated)	W/W	3.83	4.01
		Heating (Max)	W/W	3.59	3.77
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 7
	Output		kW x n	(7.81 x 2) x 3	(6.39 x 1) x 1 + (6.39 x 2) x 2 + (6.76 x 2) x 1
	Model Name		-	(DS4GJ5080FV* x 2) x 3	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2 + (DS-GB070FAV* x 2) x 1
	Oil	Type	-	PVE	PVE
		Initial charge	cc x n	(1,400 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Top	Top
	Quantity		EA	6	7
	Air Flow Rate		m^3/min	340 x 3	200 x 1 + 290 x 2 + 340 x 1
			l/s	5,667 x 3	3,333 x 1 + 4,833 x 2 + 5,667 x 1
	External Static Pressure	Max.	mmAq	8	8
			Pa	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(830 x 1) x 1 + (620 x 2) x 3
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]

2. Specification

Premium Compact

Type				DVM S	DVM S
Model Name				AM780MXVGNR3ET	AM800MXVGNR3ET
	Outdoor unit module 1			AM260MXVGNR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM260MXVGNR/ET	AM220JXVHGR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM220JXVHGR/ET
	Outdoor unit module 4			-	AM240MXVGNR/ET
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	40	40
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
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	14.0 x 3	6.5 x 1 + 11.0 x 2 + 14.0 x 1
			tCO_2e	87.70	88.74
Sound	Sound Pressure	Cooling	dB(A)	74	72
		Heating	dB(A)	76	74
	Sound Power		dB(A)	95	94
External Dimension	Net Weight		kg	358.0 x 3	201.0 x 1 + 314.0 x 2 + 350.0 x 1
	Shipping Weight		kg	380.0 x 3	217.0 x 1 + 333.0 x 2 + 372.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,795 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,987 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM080JXVHGR/ET	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	8	10	12
	Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
		Heating (Rated)	kW	22.4	28.0	33.6
		Heating (Max)	kW	25.2	31.5	37.8
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 (Ducted)	Cooling (Rated)	kW	4.59	6.22	7.57
		Heating (Rated)	kW	4.08	5.23	6.72
		Heating (Max)	kW	4.89	6.27	8.05
	Power Input (Non-Ducted)	Cooling (Rated)	kW	5.50	7.87	9.80
		Heating (Rated)	kW	4.82	6.47	7.81
		Heating (Max)	kW	5.78	7.76	9.36
	Current Input (Ducted)	Cooling (Rated)	A	7.40	10.00	12.10
		Heating (Rated)	A	6.50	8.40	10.80
		Heating (Max)	A	7.80	10.00	12.90
	Current Input (Non-Ducted)	Cooling (Rated)	A	8.80	12.60	15.70
		Heating (Rated)	A	7.70	10.40	12.50
		Heating (Max)	A	9.30	12.40	15.00
	Current	Minimum Ssc	MVA	3.1	4.5	5.3
		MCA	A	18.0	21.1	25.0
		MFA	A	25	32	32
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.88	4.50	4.44
	COP (Ducted)	Heating (Rated)	W/W	5.49	5.35	5.00
		Heating (Max)	W/W	5.15	5.02	4.70
	EER (Non-Ducted)	Cooling (Rated)	W/W	4.07	3.56	3.43
	COP (Non-Ducted)	Heating (Rated)	W/W	4.65	4.33	4.30
		Heating (Max)	W/W	4.36	4.06	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	5.18 x 1	6.39 x 1	6.39 x 1
	Model Name		-	DS-GB052FAV* x 1	DS-GB066FAV* x 1	DS-GB066FAV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	1	1	1
	Air Flow Rate		m^3/min	170	170	200
			l/s	2,833	2,833	3,333
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	830 x 1	830 x 1	830 x 1
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)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM080JXVHGR/ET	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5	6.5	6.5
			tCO_2e	13.57	13.57	13.57
Sound	Sound Pressure	Cooling	dB(A)	57	58	62
		Heating	dB(A)	59	60	64
	Sound Power		dB(A)	77	79	81
External Dimension	Net Weight		kg	201.0	201.0	201.0
	Shipping Weight		kg	217.0	217.0	217.0
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	948 x 1,887 x 832	948 x 1,887 x 832	948 x 1,887 x 832
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	14	16	18
	Capacity	Cooling (Rated)	kW	40.0	45.0	50.4
		Heating (Rated)	kW	40.0	45.0	50.4
		Heating (Max)	kW	45.0	50.4	56.7
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 (Ducted)	Cooling (Rated)	kW	8.89	10.92	12.32
		Heating (Rated)	kW	8.55	8.95	10.02
		Heating (Max)	kW	10.24	10.72	12.01
	Power Input (Non-Ducted)	Cooling (Rated)	kW	11.59	12.78	13.92
		Heating (Rated)	kW	9.80	11.11	11.69
		Heating (Max)	kW	11.75	13.33	14.03
	Current Input (Ducted)	Cooling (Rated)	A	14.30	17.50	19.80
		Heating (Rated)	A	13.70	14.40	16.10
		Heating (Max)	A	16.40	17.20	19.30
	Current Input (Non-Ducted)	Cooling (Rated)	A	18.60	20.50	22.30
		Heating (Rated)	A	15.70	17.80	18.70
		Heating (Max)	A	18.80	21.40	22.50
	Current	Minimum Ssc	MVA	5.3	6.6	7.6
		MCA	A	25.0	32.0	39.2
		MFA	A	32	40	50
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.50	4.12	4.09
	COP (Ducted)	Heating (Rated)	W/W	4.68	5.03	5.03
		Heating (Max)	W/W	4.39	4.70	4.72
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.45	3.52	3.62
	COP (Non-Ducted)	Heating (Rated)	W/W	4.08	4.05	4.31
		Heating (Max)	W/W	3.83	3.78	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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 2	Inverter Scroll x 2
	Output		kW x n	6.39 x 1	4.39 x 2	6.39 x 2
	Model Name		-	DS-GB066FAV* x 1	DS-GA046FAV* x 2	DS-GB066FAV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	900 x 2	1,100 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m^3/min	255	255	290
			l/s	4,250	4,250	4,833
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2
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)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4	9.4	8.4
			tCO_2e	19.63	19.63	17.54
Sound	Sound Pressure	Cooling	dB(A)	61	62	63
		Heating	dB(A)	63	66	67
	Sound Power		dB(A)	81	82	85
External Dimension	Net Weight		kg	259.0	290.0	299.0
	Shipping Weight		kg	278.0	309.0	318.0
	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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM200JXVHGR/ET	AM220MXVGNR4ET	AM240MXVGNR4ET
	Outdoor unit module 1			-	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			-	AM120JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	20	22	24
	Capacity	Cooling (Rated)	kW	56.0	61.6	67.2
		Heating (Rated)	kW	56.0	61.6	67.2
		Heating (Max)	kW	63.0	69.3	75.6
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 (Ducted)	Cooling (Rated)	kW	13.83	13.79	15.14
		Heating (Rated)	kW	11.22	11.95	13.44
		Heating (Max)	kW	13.44	14.32	16.10
	Power Input (Non-Ducted)	Cooling (Rated)	kW	16.42	17.67	19.60
		Heating (Rated)	kW	13.53	14.28	15.62
		Heating (Max)	kW	16.20	17.12	18.72
	Current Input (Ducted)	Cooling (Rated)	A	22.20	22.10	24.20
		Heating (Rated)	A	18.00	19.20	21.60
		Heating (Max)	A	21.60	22.90	25.80
	Current Input (Non-Ducted)	Cooling (Rated)	A	26.30	28.30	31.40
		Heating (Rated)	A	21.70	22.90	25.00
		Heating (Max)	A	26.00	27.40	30.00
	Current	Minimum Ssc	MVA	8.0	9.8	10.6
		MCA	A	42.0	46.1	50.0
		MFA	A	63	63	63
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.05	4.47	4.44
	COP (Ducted)	Heating (Rated)	W/W	4.99	5.15	5.00
		Heating (Max)	W/W	4.69	4.84	4.70
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.41	3.49	3.43
	COP (Non-Ducted)	Heating (Rated)	W/W	4.14	4.31	4.30
		Heating (Max)	W/W	3.89	4.05	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	6.39 x 2	(6.39 x 1) x 2	(6.39 x 1) x 2
	Model Name		-	DS-GB066FAV* x 2	(DS-GB066FAV* x 1) x 2	(DS-GB066FAV* x 1) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	(1,100 x 1) x 2	(1,100 x 1) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m^3/min	290	170 x 1 + 200 x 1	200 x 2
			l/s	4,833	2,833 x 1 + 3,333 x 1	3,333 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	(830 x 1) x 2	(830 x 1) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM200JXVHGR/ET	AM220MXVGNR4ET	AM240MXVGNR4ET
	Outdoor unit module 1			-	AM100JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			-	AM120JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	11.0	6.5 x 2	6.5 x 2
			tCO_2e	22.97	27.14	27.14
Sound	Sound Pressure	Cooling	dB(A)	64	63	65
		Heating	dB(A)	67	65	67
	Sound Power		dB(A)	86	83	84
External Dimension	Net Weight		kg	314.0	201.0 x 2	201.0 x 2
	Shipping Weight		kg	333.0	217.0 x 2	217.0 x 2
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	(880 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	(948 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM260MXVGNR4ET	AM280MXVGNR4ET	AM300MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	26	28	30
	Capacity	Cooling (Rated)	kW	72.8	78.4	84.0
		Heating (Rated)	kW	72.8	78.4	84.0
		Heating (Max)	kW	81.9	88.2	94.5
Maximum number of connectable indoor units			EA	47	51	54
Total capacity of the connected Indoor Units		Min.	kW	36.4	39.2	42.0
		Max.	kW	94.6	101.9	109.2
Power	Power Input (Ducted)	Cooling (Rated)	kW	16.91	18.42	19.89
		Heating (Rated)	kW	14.10	15.30	16.74
		Heating (Max)	kW	16.90	18.33	20.06
	Power Input (Non-Ducted)	Cooling (Rated)	kW	19.42	21.92	23.72
		Heating (Rated)	kW	16.51	18.35	19.50
		Heating (Max)	kW	19.81	21.98	23.39
	Current Input (Ducted)	Cooling (Rated)	A	27.20	29.60	31.90
		Heating (Rated)	A	22.60	24.50	26.90
		Heating (Max)	A	27.10	29.40	32.20
	Current Input (Non-Ducted)	Cooling (Rated)	A	31.10	35.10	38.00
		Heating (Rated)	A	26.40	29.40	31.20
		Heating (Max)	A	31.80	35.30	37.50
	Current	Minimum Ssc	MVA	10.7	11.1	12.9
		MCA	A	57.2	60.0	64.2
		MFA	A	63	75	75
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.31	4.26	4.22
	COP (Ducted)	Heating (Rated)	W/W	5.16	5.12	5.02
		Heating (Max)	W/W	4.85	4.81	4.71
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.75	3.58	3.54
	COP (Non-Ducted)	Heating (Rated)	W/W	4.41	4.27	4.31
		Heating (Max)	W/W	4.13	4.01	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(5.18 x 1) x 1 + (6.39 x 2) x 1	(5.18 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1
	Model Name		-	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	3	3	3
	Air Flow Rate		m^3/min	170 x 1 + 290 x 1	170 x 1 + 290 x 1	200 x 1 + 290 x 1
			l/s	2,833 x 1 + 4,833 x 1	2,833 x 1 + 4,833 x 1	3,333 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 1	(830 x 1) x 1 + (620 x 2) x 1	(830 x 1) x 1 + (620 x 2) x 1
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM260MXVGNR4ET	AM280MXVGNR4ET	AM300MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 8.4 x 1	6.5 x 1 + 11.0 x 1	6.5 x 1 + 8.4 x 1
			tCO_2e	31.11	36.54	31.11
Sound	Sound Pressure	Cooling	dB(A)	64	65	66
		Heating	dB(A)	68	68	69
	Sound Power		dB(A)	86	87	86
External Dimension	Net Weight		kg	201.0 x 1 + 299.0 x 1	201.0 x 1 + 314.0 x 1	201.0 x 1 + 299.0 x 1
	Shipping Weight		kg	217.0 x 1 + 318.0 x 1	217.0 x 1 + 333.0 x 1	217.0 x 1 + 318.0 x 1
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM320MXVGNR4ET	AM340MXVGNR4ET	AM360MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	AM180JXVHGR/ET	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	32	34	36
	Capacity	Cooling (Rated)	kW	90.4	95.2	100.8
		Heating (Rated)	kW	90.4	95.2	100.8
		Heating (Max)	kW	101.7	107.1	113.4
Maximum number of connectable indoor units			EA	58	61	64
Total capacity of the connected Indoor Units		Min.	kW	45.2	47.6	50.4
		Max.	kW	117.5	123.8	131.0
Power	Power Input (Ducted)	Cooling (Rated)	kW	21.21	21.50	24.64
		Heating (Rated)	kW	18.57	18.18	20.04
		Heating (Max)	kW	22.25	21.79	24.02
	Power Input (Non-Ducted)	Cooling (Rated)	kW	25.51	24.92	27.84
		Heating (Rated)	kW	21.49	21.33	23.38
		Heating (Max)	kW	25.78	25.59	28.06
	Current Input (Ducted)	Cooling (Rated)	A	34.10	34.60	39.60
		Heating (Rated)	A	29.80	29.10	32.20
		Heating (Max)	A	35.70	34.90	38.60
	Current Input (Non-Ducted)	Cooling (Rated)	A	40.90	39.90	44.60
		Heating (Rated)	A	34.40	34.10	37.40
		Heating (Max)	A	41.30	41.10	45.00
	Current	Minimum Ssc	MVA	12.9	13.8	15.2
		MCA	A	64.2	75.2	78.4
		MFA	A	75	90	90
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.26	4.43	4.09
	COP (Ducted)	Heating (Rated)	W/W	4.87	5.24	5.03
		Heating (Max)	W/W	4.57	4.92	4.72
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.54	3.82	3.62
	COP (Non-Ducted)	Heating (Rated)	W/W	4.21	4.46	4.31
		Heating (Max)	W/W	3.94	4.19	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 1	(5.18 x 1) x 2 + (6.39 x 2) x 1	(6.39 x 2) x 2
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB052FAV* x 1) x 2 + (DS-GB066FAV* x 2) x 1	(DS-GB066FAV* 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 1) x 2 + (1,100 x 2) x 1	(1,100 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	4
	Air Flow Rate		m^3/min	255 x 1 + 290 x 1	170 x 2 + 290 x 1	290 x 2
			l/s	4,250 x 1 + 4,833 x 1	2,833 x 2 + 4,833 x 1	4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(830 x 1) x 2 + (620 x 2) x 1	(620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM320MXVGNR4ET	AM340MXVGNR4ET	AM360MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			-	AM180JXVHGR/ET	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4 x 1 + 8.4 x 1	6.5 x 2 + 8.4 x 1	8.4 x 2
			tCO_2e	37.17	44.68	35.08
Sound	Sound Pressure	Cooling	dB(A)	65	65	66
		Heating	dB(A)	68	68	70
	Sound Power		dB(A)	86	86	88
External Dimension	Net Weight		kg	259.0 x 1 + 299.0 x 1	201.0 x 2 + 299.0 x 1	299.0 x 2
	Shipping Weight		kg	278.0 x 1 + 318.0 x 1	217.0 x 2 + 318.0 x 1	318.0 x 2
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 2 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 2 + (1,363 x 1,887 x 832) x 1	(1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM380MXVGNR4ET	AM400MXVGNR4ET	AM420MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM140JXVHGR/ET	AM140JXVHGR/ET
	Outdoor unit module 3			-	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	38	40	42
	Capacity	Cooling (Rated)	kW	106.4	112.8	118.4
		Heating (Rated)	kW	106.4	112.8	118.4
		Heating (Max)	kW	119.7	126.9	133.2
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	53.2	56.4	59.2
		Max.	kW	138.3	146.6	153.9
Power	Power Input (Ducted)	Cooling (Rated)	kW	26.15	25.80	27.31
		Heating (Rated)	kW	21.24	22.65	23.85
		Heating (Max)	kW	25.45	27.14	28.57
	Power Input (Non-Ducted)	Cooling (Rated)	kW	30.34	31.01	33.51
		Heating (Rated)	kW	25.22	26.31	28.15
		Heating (Max)	kW	30.23	31.56	33.73
	Current Input (Ducted)	Cooling (Rated)	A	42.00	41.50	43.90
		Heating (Rated)	A	34.10	36.30	38.20
		Heating (Max)	A	40.90	43.50	45.80
	Current Input (Non-Ducted)	Cooling (Rated)	A	48.60	49.70	53.70
		Heating (Rated)	A	40.40	42.10	45.10
		Heating (Max)	A	48.50	50.60	54.10
	Current	Minimum Ssc	MVA	15.6	16.0	16.4
		MCA	A	81.2	82.2	85.0
		MFA	A	90	90	100
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.07	4.37	4.34
	COP (Ducted)	Heating (Rated)	W/W	5.01	4.98	4.96
		Heating (Max)	W/W	4.70	4.68	4.66
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.51	3.64	3.53
	COP (Non-Ducted)	Heating (Rated)	W/W	4.22	4.29	4.21
		Heating (Max)	W/W	3.96	4.02	3.95
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 2) x 2	(5.18 x 1) x 1 + (6.39 x 1) x 1 + (6.39 x 2) x 1	(5.18 x 1) x 1 + (6.39 x 1) x 1 + (6.39 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 2) x 2	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 1) x 2 + (1,100 x 2) x 1	(1,100 x 1) x 2 + (1,100 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	5	5
	Air Flow Rate		m³/min	290 x 2	170 x 1 + 255 x 1 + 290 x 1	170 x 1 + 255 x 1 + 290 x 1
			l/s	4,833 x 2	2,833 x 1 + 4,250 x 1 + 4,833 x 1	2,833 x 1 + 4,250 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM380MXVGNR4ET	AM400MXVGNR4ET	AM420MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM140JXVHGR/ET	AM140JXVHGR/ET
	Outdoor unit module 3			-	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	8.4 x 1 + 11.0 x 1	6.5 x 1 + 9.4 x 1 + 8.4 x 1	6.5 x 1 + 9.4 x 1 + 11.0 x 1
			tCO_2e	40.51	50.74	56.17
Sound	Sound Pressure	Cooling	dB(A)	67	66	66
		Heating	dB(A)	70	69	69
	Sound Power		dB(A)	89	87	88
External Dimension	Net Weight		kg	299.0 x 1 + 314.0 x 1	201.0 x 1 + 259.0 x 1 + 299.0 x 1	201.0 x 1 + 259.0 x 1 + 314.0 x 1
	Shipping Weight		kg	318.0 x 1 + 333.0 x 1	217.0 x 1 + 278.0 x 1 + 318.0 x 1	217.0 x 1 + 278.0 x 1 + 333.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM440MXVGNR4ET	AM460MXVGNR4ET	AM480MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM200JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	44	46	48
	Capacity	Cooling (Rated)	kW	123.2	128.8	134.4
		Heating (Rated)	kW	123.2	128.8	134.4
		Heating (Max)	kW	138.6	144.9	151.2
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 (Ducted)	Cooling (Rated)	kW	29.23	30.74	32.25
		Heating (Rated)	kW	24.12	25.32	26.52
		Heating (Max)	kW	28.91	30.34	31.77
	Power Input (Non-Ducted)	Cooling (Rated)	kW	33.34	35.84	38.34
		Heating (Rated)	kW	28.20	30.04	31.88
		Heating (Max)	kW	33.84	36.01	38.18
	Current Input (Ducted)	Cooling (Rated)	A	47.00	49.40	51.80
		Heating (Rated)	A	38.70	40.60	42.50
		Heating (Max)	A	46.40	48.70	51.00
	Current Input (Non-Ducted)	Cooling (Rated)	A	53.40	57.40	61.40
		Heating (Rated)	A	45.10	48.10	51.10
		Heating (Max)	A	54.30	57.80	61.30
	Current	Minimum Ssc	MVA	18.3	18.7	19.1
		MCA	A	96.4	99.2	102.0
		MFA	A	125	125	125
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.21	4.19	4.17
	COP (Ducted)	Heating (Rated)	W/W	5.11	5.09	5.07
		Heating (Max)	W/W	4.79	4.78	4.76
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.70	3.59	3.51
	COP (Non-Ducted)	Heating (Rated)	W/W	4.37	4.29	4.22
		Heating (Max)	W/W	4.10	4.02	3.96
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(5.18 x 1) x 1 + (6.39 x 2) x 2	(5.18 x 1) x 1 + (6.39 x 2) x 2	(5.18 x 1) x 1 + (6.39 x 2) x 2
	Model Name		-	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	5	5
	Air Flow Rate		m^3/min	170 x 1 + 290 x 2	170 x 1 + 290 x 2	170 x 1 + 290 x 2
			l/s	2,833 x 1 + 4,833 x 2	2,833 x 1 + 4,833 x 2	2,833 x 1 + 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM440MXVGNR4ET	AM460MXVGNR4ET	AM480MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM200JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 8.4 x 2	6.5 x 1 + 8.4 x 1 + 11.0 x 1	6.5 x 1 + 11.0 x 2
			tCO_2e	48.65	54.08	59.51
Sound	Sound Pressure	Cooling	dB(A)	67	67	67
		Heating	dB(A)	70	70	70
	Sound Power		dB(A)	88	89	89
External Dimension	Net Weight		kg	201.0 x 1 + 299.0 x 2	201.0 x 1 + 299.0 x 1 + 314.0 x 1	201.0 x 1 + 314.0 x 2
	Shipping Weight		kg	217.0 x 1 + 318.0 x 2	217.0 x 1 + 318.0 x 1 + 333.0 x 1	217.0 x 1 + 333.0 x 2
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM500MXVGNR4ET	AM520MXVGNR4ET	AM540MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	50	52	54
	Capacity	Cooling (Rated)	kW	140.8	145.6	151.2
		Heating (Rated)	kW	140.8	145.6	151.2
		Heating (Max)	kW	158.4	163.8	170.1
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	70.4	72.8	75.6
		Max.	kW	183.0	189.3	196.6
Power	Power Input (Ducted)	Cooling (Rated)	kW	33.53	37.83	39.34
		Heating (Rated)	kW	28.59	29.27	30.47
		Heating (Max)	kW	34.26	35.08	36.51
	Power Input (Non-Ducted)	Cooling (Rated)	kW	39.43	42.46	44.96
		Heating (Rated)	kW	33.18	35.52	37.36
		Heating (Max)	kW	39.81	42.62	44.79
	Current Input (Ducted)	Cooling (Rated)	A	53.90	60.80	63.20
		Heating (Rated)	A	45.90	46.90	48.80
		Heating (Max)	A	55.00	56.20	58.50
	Current Input (Non-Ducted)	Cooling (Rated)	A	63.20	68.10	72.10
		Heating (Rated)	A	53.10	56.90	59.90
		Heating (Max)	A	63.80	68.40	71.90
	Current	Minimum Ssc	MVA	20.5	22.9	23.3
		MCA	A	103.4	117.2	120.0
		MFA	A	125	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.20	3.85	3.84
	COP (Ducted)	Heating (Rated)	W/W	4.92	4.97	4.96
		Heating (Max)	W/W	4.62	4.67	4.66
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.57	3.43	3.36
	COP (Non-Ducted)	Heating (Rated)	W/W	4.24	4.10	4.05
		Heating (Max)	W/W	3.98	3.84	3.80
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 2	(5.18 x 1) x 1 + (6.39 x 2) x 1 + (7.81 x 2) x 1	(5.18 x 1) x 1 + (6.39 x 2) x 1 + (7.81 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1 + (DS4GJ5080FV* 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 2	(1,100 x 1) x 1 + (1,100 x 2) x 1 + (1,400 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1 + (1,400 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	6	5	5
	Air Flow Rate		m³/min	255 x 1 + 290 x 2	170 x 1 + 290 x 1 + 340 x 1	170 x 1 + 290 x 1 + 340 x 1
			l/s	4,250 x 1 + 4,833 x 2	2,833 x 1 + 4,833 x 1 + 5,667 x 1	2,833 x 1 + 4,833 x 1 + 5,667 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(830 x 1) x 1 + (620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM500MXVGNR4ET	AM520MXVGNR4ET	AM540MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM080JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM260MXVGNR/ET	AM260MXVGNR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4 x 1 + 8.4 x 2	6.5 x 1 + 8.4 x 1 + 14.0 x 1	6.5 x 1 + 11.0 x 1 + 14.0 x 1
			tCO_2e	54.71	60.34	65.77
Sound	Sound Pressure	Cooling	dB(A)	67	70	70
		Heating	dB(A)	71	73	73
	Sound Power		dB(A)	89	91	92
External Dimension	Net Weight		kg	259.0 x 1 + 299.0 x 2	201.0 x 1 + 299.0 x 1 + 358.0 x 1	201.0 x 1 + 314.0 x 1 + 358.0 x 1
	Shipping Weight		kg	278.0 x 1 + 318.0 x 2	217.0 x 1 + 318.0 x 1 + 380.0 x 1	217.0 x 1 + 333.0 x 1 + 380.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM560MXVGNR4ET	AM580MXVGNR4ET	AM600MXVGNR4ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM240MXVGNR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM260MXVGNR/ET	AM240MXVGNR/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	56	58	60
	Capacity	Cooling (Rated)	kW	156.8	162.4	168.0
		Heating (Rated)	kW	156.8	162.4	168.0
		Heating (Max)	kW	176.4	182.7	189.0
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 (Ducted)	Cooling (Rated)	kW	40.81	44.12	43.25
		Heating (Rated)	kW	31.91	32.45	33.24
		Heating (Max)	kW	38.24	38.89	39.84
	Power Input (Non-Ducted)	Cooling (Rated)	kW	46.76	48.48	47.78
		Heating (Rated)	kW	38.51	40.42	39.97
		Heating (Max)	kW	46.20	48.48	47.95
	Current Input (Ducted)	Cooling (Rated)	A	65.50	70.80	69.40
		Heating (Rated)	A	51.20	52.00	53.40
		Heating (Max)	A	61.30	62.30	64.00
	Current Input (Non-Ducted)	Cooling (Rated)	A	75.00	77.80	76.60
		Heating (Rated)	A	61.70	64.80	64.00
		Heating (Max)	A	74.10	77.80	76.90
	Current	Minimum Ssc	MVA	25.1	27.8	27.7
		MCA	A	124.2	133.0	133.4
		MFA	A	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.84	3.68	3.88
	COP (Ducted)	Heating (Rated)	W/W	4.91	5.00	5.05
		Heating (Max)	W/W	4.61	4.70	4.74
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.35	3.35	3.52
	COP (Non-Ducted)	Heating (Rated)	W/W	4.07	4.02	4.20
		Heating (Max)	W/W	3.82	3.77	3.94
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 1 + (7.81 x 2) x 1	(5.18 x 1) x 1 + (6.76 x 2) x 1 + (7.81 x 2) x 1	(6.39 x 2) x 2 + (6.76 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1	(DS-GB052FAV* x 1) x 1 + (DS-GB070FAV* x 2) x 1 + (DS4GJ5080FV* x 2) x 1	(DS-GB066FAV* x 2) x 2 + (DS-GB070FAV* 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 + (1,400 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1 + (1,400 x 2) x 1	(1,100 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	5	6
	Air Flow Rate		m³/min	200 x 1 + 290 x 1 + 340 x 1	170 x 1 + 340 x 2	290 x 2 + 340 x 1
			l/s	3,333 x 1 + 4,833 x 1 + 5,667 x 1	2,833 x 1 + 5,667 x 2	4,833 x 2 + 5,667 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 2	(830 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM560MXVGNR4ET	AM580MXVGNR4ET	AM600MXVGNR4ET
	Outdoor unit module 1			AM120JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM240MXVGNR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM260MXVGNR/ET	AM260MXVGNR/ET	AM240MXVGNR/ET
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 8.4 x 1 + 14.0 x 1	6.5 x 1 + 14.0 x 2	8.4 x 2 + 14.0 x 1
			tCO_2e	60.34	72.04	64.31
Sound	Sound Pressure	Cooling	dB(A)	71	72	71
		Heating	dB(A)	73	74	74
	Sound Power		dB(A)	92	93	92
External Dimension	Net Weight		kg	201.0 x 1 + 299.0 x 1 + 358.0 x 1	201.0 x 1 + 350.0 x 1 + 358.0 x 1	299.0 x 2 + 350.0 x 1
	Shipping Weight		kg	217.0 x 1 + 318.0 x 1 + 380.0 x 1	217.0 x 1 + 372.0 x 1 + 380.0 x 1	318.0 x 2 + 372.0 x 1
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM620MXVGNR4ET	AM640MXVGNR4ET	AM660MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM180JXVHGR/ET	AM200JXVHGR/ET	AM180JXVHGR/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	62	64	66
	Capacity	Cooling (Rated)	kW	173.6	179.2	184.8
		Heating (Rated)	kW	173.6	179.2	184.8
		Heating (Max)	kW	195.3	201.6	207.9
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 (Ducted)	Cooling (Rated)	kW	41.55	43.06	44.53
		Heating (Rated)	kW	34.14	35.34	36.78
		Heating (Max)	kW	40.92	42.35	44.08
	Power Input (Non-Ducted)	Cooling (Rated)	kW	47.26	49.76	51.56
		Heating (Rated)	kW	39.89	41.73	42.88
		Heating (Max)	kW	47.87	50.04	51.45
	Current Input (Ducted)	Cooling (Rated)	A	66.80	69.20	71.50
		Heating (Rated)	A	54.80	56.70	59.10
		Heating (Max)	A	65.70	68.00	70.80
	Current Input (Non-Ducted)	Cooling (Rated)	A	75.70	79.70	82.60
		Heating (Rated)	A	63.80	66.80	68.60
		Heating (Max)	A	76.80	80.30	82.50
	Current	Minimum Ssc	MVA	25.9	26.3	28.1
		MCA	A	135.6	138.4	142.6
		MFA	A	150	175	175
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.18	4.16	4.15
	COP (Ducted)	Heating (Rated)	W/W	5.08	5.07	5.02
		Heating (Max)	W/W	4.77	4.76	4.72
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.67	3.60	3.58
	COP (Non-Ducted)	Heating (Rated)	W/W	4.35	4.29	4.31
		Heating (Max)	W/W	4.08	4.03	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(5.18 x 1) x 1 + (6.39 x 2) x 3	(5.18 x 1) x 1 + (6.39 x 2) x 3	(6.39 x 1) x 1 + (6.39 x 2) x 3
	Model Name		-	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 3	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 3	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* 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
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	7	7	7
	Air Flow Rate		m^3/min	170 x 1 + 290 x 3	170 x 1 + 290 x 3	200 x 1 + 290 x 3
			l/s	2,833 x 1 + 4,833 x 3	2,833 x 1 + 4,833 x 3	3,333 x 1 + 4,833 x 3
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(830 x 1) x 1 + (620 x 2) x 3	(830 x 1) x 1 + (620 x 2) x 3	(830 x 1) x 1 + (620 x 2) x 3
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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM620MXVGNR4ET	AM640MXVGNR4ET	AM660MXVGNR4ET
	Outdoor unit module 1			AM080JXVHGR/ET	AM080JXVHGR/ET	AM120JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM180JXVHGR/ET	AM200JXVHGR/ET	AM180JXVHGR/ET
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	6.5 x 1 + 8.4 x 3	6.5 x 1 + 8.4 x 2 + 11.0 x 1	6.5 x 1 + 8.4 x 3
			tCO_2e	66.19	71.62	66.19
Sound	Sound Pressure	Cooling	dB(A)	68	68	69
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	90	90	90
External Dimension	Net Weight		kg	201.0 x 1 + 299.0 x 3	201.0 x 1 + 299.0 x 2 + 314.0 x 1	201.0 x 1 + 299.0 x 3
	Shipping Weight		kg	217.0 x 1 + 318.0 x 3	217.0 x 1 + 318.0 x 2 + 333.0 x 1	217.0 x 1 + 318.0 x 3
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM680MXVGNR4ET	AM700MXVGNR4ET	AM720MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM180JXVHGR/ET	AM260MXVGNR/ET	AM180JXVHGR/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	68	70	72
	Capacity	Cooling (Rated)	kW	191.2	196.0	201.6
		Heating (Rated)	kW	191.2	196.0	201.6
		Heating (Max)	kW	215.1	220.5	226.8
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	95.6	98.0	100.8
		Max.	kW	248.6	254.8	262.1
Power	Power Input (Ducted)	Cooling (Rated)	kW	45.85	50.15	49.28
		Heating (Rated)	kW	38.61	39.29	40.08
		Heating (Max)	kW	46.27	47.09	48.04
	Power Input (Non-Ducted)	Cooling (Rated)	kW	53.35	56.38	55.68
		Heating (Rated)	kW	44.87	47.21	46.76
		Heating (Max)	kW	53.84	56.65	56.12
	Current Input (Ducted)	Cooling (Rated)	A	73.70	80.60	79.20
		Heating (Rated)	A	62.00	63.00	64.40
		Heating (Max)	A	74.30	75.50	77.20
	Current Input (Non-Ducted)	Cooling (Rated)	A	85.50	90.40	89.20
		Heating (Rated)	A	71.80	75.60	74.80
		Heating (Max)	A	86.30	90.90	90.00
	Current	Minimum Ssc	MVA	28.1	30.5	30.4
		MCA	A	142.6	156.4	156.8
		MFA	A	175	175	175
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.17	3.91	4.09
	COP (Ducted)	Heating (Rated)	W/W	4.95	4.99	5.03
		Heating (Max)	W/W	4.65	4.68	4.72
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.58	3.48	3.62
	COP (Non-Ducted)	Heating (Rated)	W/W	4.26	4.15	4.31
		Heating (Max)	W/W	4.00	3.89	4.04
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI 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	(6.39 x 1) x 1 + (6.39 x 2) x 3	(5.18 x 1) x 1 + (6.39 x 2) x 2 + (7.81 x 2) x 1	(6.39 x 2) x 4
	Model Name		-	(DS-GB066FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 3	(DS-GB052FAV* x 1) x 1 + (DS-GB066FAV* x 2) x 2 + (DS4GJ5080FV* x 2) x 1	(DS-GB066FAV* x 2) x 4
	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 2 + (1,400 x 2) x 1	(1,100 x 2) x 4
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	8	7	8
	Air Flow Rate		m³/min	255 x 1 + 290 x 3	170 x 1 + 290 x 2 + 340 x 1	290 x 4
			l/s	4,250 x 1 + 4,833 x 3	2,833 x 1 + 4,833 x 2 + 5,667 x 1	4,833 x 4
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 4	(830 x 1) x 1 + (620 x 2) x 3	(620 x 2) x 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)
	High pressure Gas Pipe(HR Only)		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		-	All liquid and gas pipes	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S	DVM S
Model Name				AM680MXVGNR4ET	AM700MXVGNR4ET	AM720MXVGNR4ET
	Outdoor unit module 1			AM140JXVHGR/ET	AM080JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM180JXVHGR/ET	AM260MXVGNR/ET	AM180JXVHGR/ET
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
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	9.4 x 1 + 8.4 x 3	6.5 x 1 + 8.4 x 2 + 14.0 x 1	8.4 x 4
			tCO_2e	72.24	77.88	70.16
Sound	Sound Pressure	Cooling	dB(A)	69	71	69
		Heating	dB(A)	72	74	73
	Sound Power		dB(A)	90	92	91
External Dimension	Net Weight		kg	259.0 x 1 + 299.0 x 3	201.0 x 1 + 299.0 x 2 + 358.0 x 1	299.0 x 4
	Shipping Weight		kg	278.0 x 1 + 318.0 x 3	217.0 x 1 + 318.0 x 2 + 380.0 x 1	318.0 x 4
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 4
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 4	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 4
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S
Model Name				AM740MXVGNR4ET	AM760MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			AM200JXVHGR/ET	AM200JXVHGR/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	74	76
	Capacity	Cooling (Rated)	kW	207.2	212.8
		Heating (Rated)	kW	207.2	212.8
		Heating (Max)	kW	233.1	239.4
Maximum number of connectable indoor units			EA	64	64
Total capacity of the connected Indoor Units		Min.	kW	103.6	106.4
		Max.	kW	269.4	276.6
Power	Power Input (Ducted)	Cooling (Rated)	kW	50.79	52.30
		Heating (Rated)	kW	41.28	42.48
		Heating (Max)	kW	49.47	50.90
	Power Input (Non-Ducted)	Cooling (Rated)	kW	58.18	60.68
		Heating (Rated)	kW	48.60	50.44
		Heating (Max)	kW	58.29	60.46
	Current Input (Ducted)	Cooling (Rated)	A	81.60	84.00
		Heating (Rated)	A	66.30	68.20
		Heating (Max)	A	79.50	81.80
	Current Input (Non-Ducted)	Cooling (Rated)	A	93.20	97.20
		Heating (Rated)	A	77.80	80.80
		Heating (Max)	A	93.50	97.00
	Current	Minimum Ssc	MVA	30.8	31.2
		MCA	A	159.6	162.4
		MFA	A	175	200
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.08	4.07
	COP (Ducted)	Heating (Rated)	W/W	5.02	5.01
		Heating (Max)	W/W	4.71	4.70
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.56	3.51
	COP (Non-Ducted)	Heating (Rated)	W/W	4.26	4.22
		Heating (Max)	W/W	4.00	3.96
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 8	Inverter Scroll x 8
	Output		kW x n	(6.39 x 2) x 4	(6.39 x 2) x 4
	Model Name		-	(DS-GB066FAV* x 2) x 4	(DS-GB066FAV* x 2) x 4
	Oil	Type	-	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 4	(1,100 x 2) x 4
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Top	Top
	Quantity		EA	8	8
	Air Flow Rate		m^3/min	290 x 4	290 x 4
			l/s	4,833 x 4	4,833 x 4
	External Static Pressure	Max.	mmAq	8	8
			Pa	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 4	(620 x 2) x 4
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S
Model Name				AM740MXVGNR4ET	AM760MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM180JXVHGR/ET	AM200JXVHGR/ET
	Outdoor unit module 4			AM200JXVHGR/ET	AM200JXVHGR/ET
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	40	40
Wiring connections	Transmission Cable	Min.	mm^2	0.75	0.75
		Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	8.4 x 3 + 11.0 x 1	8.4 x 2 + 11.0 x 2
			tCO_2e	75.59	81.01
Sound	Sound Pressure	Cooling	dB(A)	69	70
		Heating	dB(A)	73	73
	Sound Power		dB(A)	91	92
External Dimension	Net Weight		kg	299.0 x 3 + 314.0 x 1	299.0 x 2 + 314.0 x 2
	Shipping Weight		kg	318.0 x 3 + 333.0 x 1	318.0 x 2 + 333.0 x 2
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 4	(1,363 x 1,887 x 832) x 4
Operating Temp. Range	Cooling		°C	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Energy Efficiency

Type				DVM S	DVM S
Model Name				AM780MXVGNR4ET	AM800MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM200JXVHGR/ET	AM260MXVGNR/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT RECOVERY	HEAT RECOVERY
Performance	HP		HP	78	80
	Capacity	Cooling (Rated)	kW	218.4	224.0
		Heating (Rated)	kW	218.4	224.0
		Heating (Max)	kW	245.7	252.0
Maximum number of connectable indoor units			EA	64	64
Total capacity of the connected Indoor Units		Min.	kW	109.2	112.0
		Max.	kW	283.9	291.2
Power	Power Input (Ducted)	Cooling (Rated)	kW	53.81	57.88
		Heating (Rated)	kW	43.68	45.23
		Heating (Max)	kW	52.33	54.21
	Power Input (Non-Ducted)	Cooling (Rated)	kW	63.18	64.80
		Heating (Rated)	kW	52.28	54.08
		Heating (Max)	kW	62.63	64.90
	Current Input (Ducted)	Cooling (Rated)	A	86.40	93.00
		Heating (Rated)	A	70.10	72.60
		Heating (Max)	A	84.10	87.00
	Current Input (Non-Ducted)	Cooling (Rated)	A	101.20	103.90
		Heating (Rated)	A	83.80	86.60
		Heating (Max)	A	100.50	104.10
	Current	Minimum Ssc	MVA	31.6	35.0
		MCA	A	165.2	177.6
		MFA	A	200	200
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.06	3.87
	COP (Ducted)	Heating (Rated)	W/W	5.00	4.95
		Heating (Max)	W/W	4.70	4.65
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.46	3.46
	COP (Non-Ducted)	Heating (Rated)	W/W	4.18	4.14
		Heating (Max)	W/W	3.92	3.88
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 8	Inverter Scroll x 8
	Output		kW x n	(6.39 x 2) x 4	(6.39 x 2) x 3 + (7.81 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 2) x 4	(DS-GB066FAV* x 2) x 3 + (DS4GJ5080FV* x 2) x 1
	Oil	Type	-	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 4	(1,100 x 2) x 3 + (1,400 x 2) x 1
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Top	Top
	Quantity		EA	8	8
	Air Flow Rate		m^3/min	290 x 4	290 x 3 + 340 x 1
			l/s	4,833 x 4	4,833 x 3 + 5,667 x 1
	External Static Pressure	Max.	mmAq	8	8
			Pa	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 4	(620 x 2) x 4
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	All liquid and gas pipes	All liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]

2. Specification

Premium Energy Efficiency

Type				DVM S	DVM S
Model Name				AM780MXVGNR4ET	AM800MXVGNR4ET
	Outdoor unit module 1			AM180JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 2			AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 3			AM200JXVHGR/ET	AM180JXVHGR/ET
	Outdoor unit module 4			AM200JXVHGR/ET	AM260MXVGNR/ET
Piping Connections	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	40	40
Wiring connections	Transmission Cable	Min.	mm^2	0.75	0.75
		Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	8.4 x 1 + 11.0 x 3	8.4 x 3 + 14.0 x 1
			tCO_2e	86.44	81.85
Sound	Sound Pressure	Cooling	dB(A)	70	71
		Heating	dB(A)	73	74
	Sound Power		dB(A)	92	93
External Dimension	Net Weight		kg	299.0 x 1 + 314.0 x 3	299.0 x 3 + 358.0 x 1
	Shipping Weight		kg	318.0 x 1 + 333.0 x 3	318.0 x 3 + 380.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 3 + (1,295 x 1,795 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 4	(1,363 x 1,887 x 832) x 3 + (1,363 x 1,987 x 832) x 1
Operating Temp. Range	Cooling		℃	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition

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
   - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
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 (GWP=2,088) 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.

- 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

Premium Compact

Capacity		Model	Power Supply		Voltage Range		Running Current [A] (Ducted)		Running Current [A] (Non-Ducted)		Current [A]		ODU Fan Motor	
HP	kW		Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080JXVHGR/ET	50	380-415	342	456	7.4	7.8	8.8	9.3	18.0	25	0.83	2.4
10	28.0	AM100JXVHGR/ET	50	380-415	342	456	10.0	10.0	12.6	12.4	21.1	32	0.83	2.4
12	33.6	AM120JXVHGR/ET	50	380-415	342	456	12.1	12.9	15.7	15.0	25.0	32	0.83	2.4
14	39.2	AM140JXVHGR/ET	50	380-415	342	456	14.3	16.4	18.6	18.8	25.0	32	1.24	3.8
16	44.8	AM160JXVHGR/ET	50	380-415	342	456	17.5	17.2	20.5	21.4	32.0	40	1.24	3.8
18	50.4	AM180JXVHGR/ET	50	380-415	342	456	19.8	19.3	22.3	22.5	39.2	50	1.24	3.8
20	56.0	AM200JXVHGR/ET	50	380-415	342	456	22.2	21.6	26.3	26.0	42.0	63	1.24	3.8
22	61.6	AM220JXVHGR/ET	50	380-415	342	456	25.5	24.8	31.5	30.2	44.6	63	1.24	3.8
24	67.2	AM240MXVGNR/ET	50	380-415	342	456	29.8	25.4	32.0	31.9	55.0	63	1.24	3.8
26	72.8	AM260MXVGNR/ET	50	380-415	342	456	33.6	29.1	37.0	36.6	60.0	75	1.24	3.8
28	78.4	AM280MXVGNR3ET	50	380-415	342	456	29.6	30.1	36.2	36.4	57.0	75	2.07	6.2
30	84.0	AM300MXVGNR3ET	50	380-415	342	456	31.9	32.2	38.0	37.5	64.2	75	2.07	6.2
32	89.6	AM320MXVGNR3ET	50	380-415	342	456	34.3	34.5	42.0	41.0	67.0	75	2.07	6.2
34	95.2	AM340MXVGNR3ET	50	380-415	342	456	37.6	37.7	47.2	45.2	69.6	80	2.07	6.2
36	100.8	AM360MXVGNR3ET	50	380-415	342	456	39.8	41.2	50.1	49.0	69.6	80	2.48	7.6
38	106.4	AM380MXVGNR3ET	50	380-415	342	456	43.0	42.0	52.0	51.6	76.6	90	2.48	7.6
40	112.0	AM400MXVGNR3ET	50	380-415	342	456	45.3	44.1	53.8	52.7	83.8	100	2.48	7.6
42	117.6	AM420MXVGNR3ET	50	380-415	342	456	47.7	46.4	57.8	56.2	86.6	100	2.48	7.6
44	123.2	AM440MXVGNR3ET	50	380-415	342	456	51.0	49.6	63.0	60.4	89.2	100	2.48	7.6
46	128.8	AM460MXVGNR3ET	50	380-415	342	456	55.3	50.2	63.5	62.1	99.6	125	2.48	7.6
48	134.4	AM480MXVGNR3ET	50	380-415	342	456	59.1	53.9	68.5	66.8	104.6	125	2.48	7.6
50	140.0	AM500MXVGNR3ET	50	380-415	342	456	63.4	54.5	69.0	68.5	115.0	150	2.48	7.6
52	145.6	AM520MXVGNR3ET	50	380-415	342	456	67.2	58.2	74.0	73.2	120.0	150	2.48	7.6
54	151.2	AM540MXVGNR3ET	50	380-415	342	456	59.8	59.3	73.5	71.2	111.6	150	3.31	10.0
56	156.8	AM560MXVGNR3ET	50	380-415	342	456	63.1	62.5	78.7	75.4	114.2	150	3.31	10.0
58	162.4	AM580MXVGNR3ET	50	380-415	342	456	65.3	66.0	81.6	79.2	114.2	150	3.72	11.4
60	168.0	AM600MXVGNR3ET	50	380-415	342	456	68.5	66.8	83.5	81.8	121.2	150	3.72	11.4
62	173.6	AM620MXVGNR3ET	50	380-415	342	456	70.8	68.9	85.3	82.9	128.4	150	3.72	11.4
64	179.2	AM640MXVGNR3ET	50	380-415	342	456	73.2	71.2	89.3	86.4	131.2	150	3.72	11.4
66	184.8	AM660MXVGNR3ET	50	380-415	342	456	76.5	74.4	94.5	90.6	133.8	150	3.72	11.4
68	190.4	AM680MXVGNR3ET	50	380-415	342	456	80.8	75.0	95.0	92.3	144.2	175	3.72	11.4
70	196.0	AM700MXVGNR3ET	50	380-415	342	456	84.6	78.7	100.0	97.0	149.2	175	3.72	11.4
72	201.6	AM720MXVGNR3ET	50	380-415	342	456	88.9	79.3	100.5	98.7	159.6	175	3.72	11.4
74	207.2	AM740MXVGNR3ET	50	380-415	342	456	92.7	83.0	105.5	103.4	164.6	200	3.72	11.4
76	212.8	AM760MXVGNR3ET	50	380-415	342	456	97.0	83.6	106.0	105.1	175.0	200	3.72	11.4
78	218.4	AM780MXVGNR3ET	50	380-415	342	456	100.8	87.3	111.0	109.8	180.0	200	3.72	11.4
80	224.0	AM800MXVGNR3ET	50	380-415	342	456	92.9	87.9	110.7	107.3	169.2	200	3.72	11.4

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- FLA : Full load amperes

3. Electric Characteristics

Premium Energy Efficiency

Capacity		Model	Power Supply		Voltage Range		Running Current [A] (Ducted)		Running Current [A] (Non-Ducted)		Current [A]		ODU Fan Motor	
HP	kW		Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080JXVHGR/ET	50	380-415	342	456	7.4	7.8	8.8	9.3	18.0	25	0.83	2.4
10	28.0	AM100JXVHGR/ET	50	380-415	342	456	10.0	10.0	12.6	12.4	21.1	32	0.83	2.4
12	33.6	AM120JXVHGR/ET	50	380-415	342	456	12.1	12.9	15.7	15.0	25.0	32	0.83	2.4
14	39.2	AM140JXVHGR/ET	50	380-415	342	456	14.3	16.4	18.6	18.8	25.0	32	1.24	3.8
16	44.8	AM160JXVHGR/ET	50	380-415	342	456	17.5	17.2	20.5	21.4	32.0	40	1.24	3.8
18	50.4	AM180JXVHGR/ET	50	380-415	342	456	19.8	19.3	22.3	22.5	39.2	50	1.24	3.8
20	56.0	AM200JXVHGR/ET	50	380-415	342	456	22.2	21.6	26.3	26.0	42.0	63	1.24	3.8
22	61.6	AM220MXVGNR4ET	50	380-415	342	456	22.1	22.9	28.3	27.4	46.1	63	1.66	4.8
24	67.2	AM240MXVGNR4ET	50	380-415	342	456	24.2	25.8	31.4	30.0	50.0	63	1.66	4.8
26	72.8	AM260MXVGNR4ET	50	380-415	342	456	27.2	27.1	31.1	31.8	57.2	63	2.07	6.2
28	78.4	AM280MXVGNR4ET	50	380-415	342	456	29.6	29.4	35.1	35.3	60.0	75	2.07	6.2
30	84.0	AM300MXVGNR4ET	50	380-415	342	456	31.9	32.2	38.0	37.5	64.2	75	2.07	6.2
32	89.6	AM320MXVGNR4ET	50	380-415	342	456	34.1	35.7	40.9	41.3	64.2	75	2.48	7.6
34	95.2	AM340MXVGNR4ET	50	380-415	342	456	34.6	34.9	39.9	41.1	75.2	90	2.9	8.6
36	100.8	AM360MXVGNR4ET	50	380-415	342	456	39.6	38.6	44.6	45.0	78.4	90	2.48	7.6
38	106.4	AM380MXVGNR4ET	50	380-415	342	456	42.0	40.9	48.6	48.5	81.2	90	2.48	7.6
40	112.0	AM400MXVGNR4ET	50	380-415	342	456	41.5	43.5	49.7	50.6	82.2	90	3.31	10.0
42	117.6	AM420MXVGNR4ET	50	380-415	342	456	43.9	45.8	53.7	54.1	85.0	100	3.31	10.0
44	123.2	AM440MXVGNR4ET	50	380-415	342	456	47.0	46.4	53.4	54.3	96.4	125	3.31	10.0
46	128.8	AM460MXVGNR4ET	50	380-415	342	456	49.4	48.7	57.4	57.8	99.2	125	3.31	10.0
48	134.4	AM480MXVGNR4ET	50	380-415	342	456	51.8	51.0	61.4	61.3	102.0	125	3.31	10.0
50	140.0	AM500MXVGNR4ET	50	380-415	342	456	53.9	55.0	63.2	63.8	103.4	125	3.72	11.4
52	145.6	AM520MXVGNR4ET	50	380-415	342	456	60.8	56.2	68.1	68.4	117.2	150	3.31	10.0
54	151.2	AM540MXVGNR4ET	50	380-415	342	456	63.2	58.5	72.1	71.9	120.0	150	3.31	10.0
56	156.8	AM560MXVGNR4ET	50	380-415	342	456	65.5	61.3	75.0	74.1	124.2	150	3.31	10.0
58	162.4	AM580MXVGNR4ET	50	380-415	342	456	70.8	62.3	77.8	77.8	133.0	150	3.31	10.0
60	168.0	AM600MXVGNR4ET	50	380-415	342	456	69.4	64.0	76.6	76.9	133.4	150	3.72	11.4
62	173.6	AM620MXVGNR4ET	50	380-415	342	456	66.8	65.7	75.7	76.8	135.6	150	4.55	13.8
64	179.2	AM640MXVGNR4ET	50	380-415	342	456	69.2	68.0	79.7	80.3	138.4	175	4.55	13.8
66	184.8	AM660MXVGNR4ET	50	380-415	342	456	71.5	70.8	82.6	82.5	142.6	175	4.55	13.8
68	190.4	AM680MXVGNR4ET	50	380-415	342	456	73.7	74.3	85.5	86.3	142.6	175	4.96	15.2
70	196.0	AM700MXVGNR4ET	50	380-415	342	456	80.6	75.5	90.4	90.9	156.4	175	4.55	13.8
72	201.6	AM720MXVGNR4ET	50	380-415	342	456	79.2	77.2	89.2	90.0	156.8	175	4.96	15.2
74	207.2	AM740MXVGNR4ET	50	380-415	342	456	81.6	79.5	93.2	93.5	159.6	175	4.96	15.2
76	212.8	AM760MXVGNR4ET	50	380-415	342	456	84.0	81.8	97.2	97.0	162.4	200	4.96	15.2
78	218.4	AM780MXVGNR4ET	50	380-415	342	456	86.4	84.1	101.2	100.5	165.2	200	4.96	15.2
80	224.0	AM800MXVGNR4ET	50	380-415	342	456	93.0	87.0	103.9	104.1	177.6	200	4.96	15.2

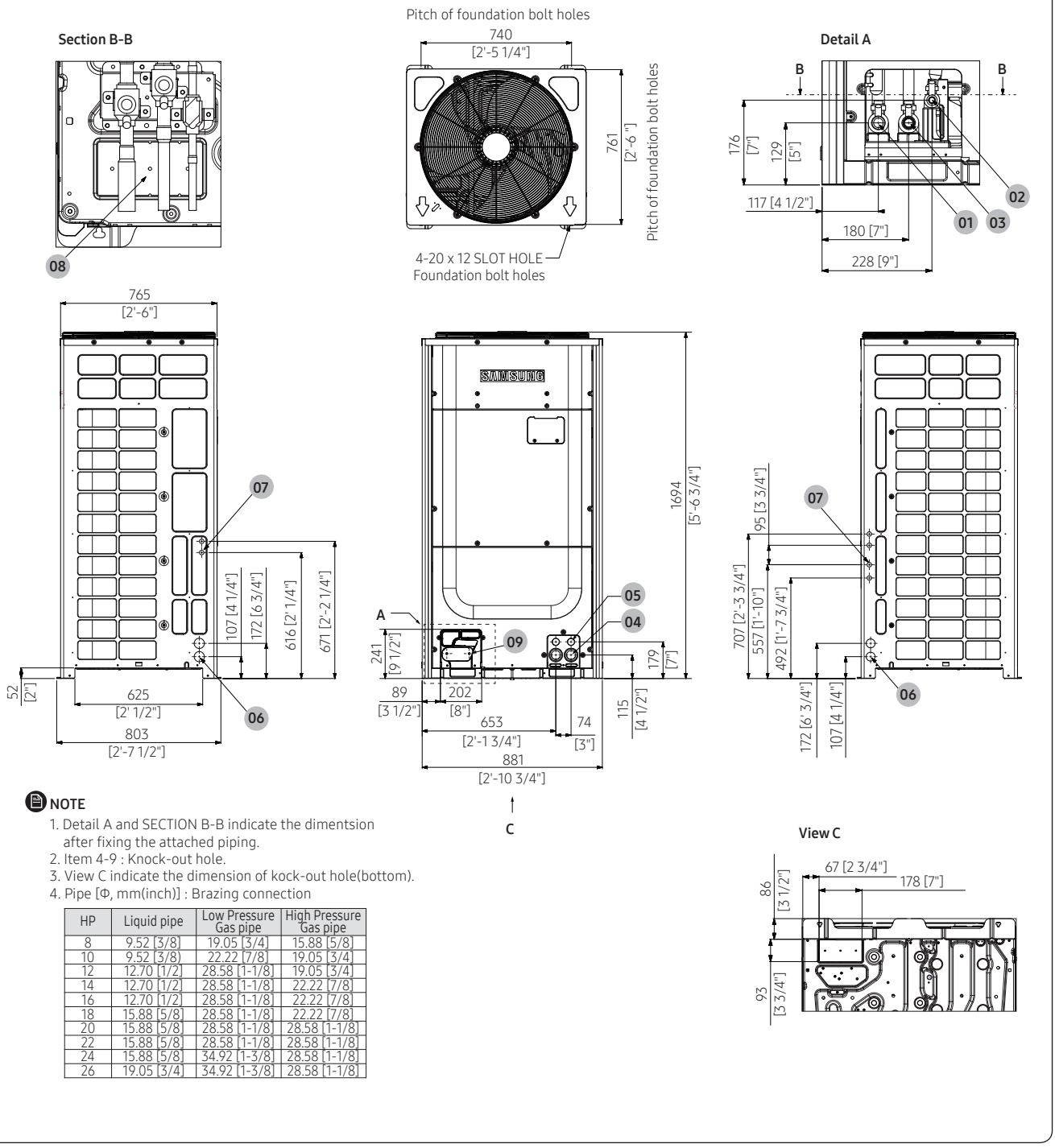
NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- FLA : Full load amperes

4. Dimensional Drawing

Outdoor unit

- AM080~120JXVHGR



NOTE

1. Detail A and SECTION B-B indicate the dimentsion after fixing the attached piping.
2. Item 4-9 : Knock-out hole.
3. View C indicate the dimension of kock-out hole(bottom).
4. Pipe [Φ, mm(inch)] : Brazing connection

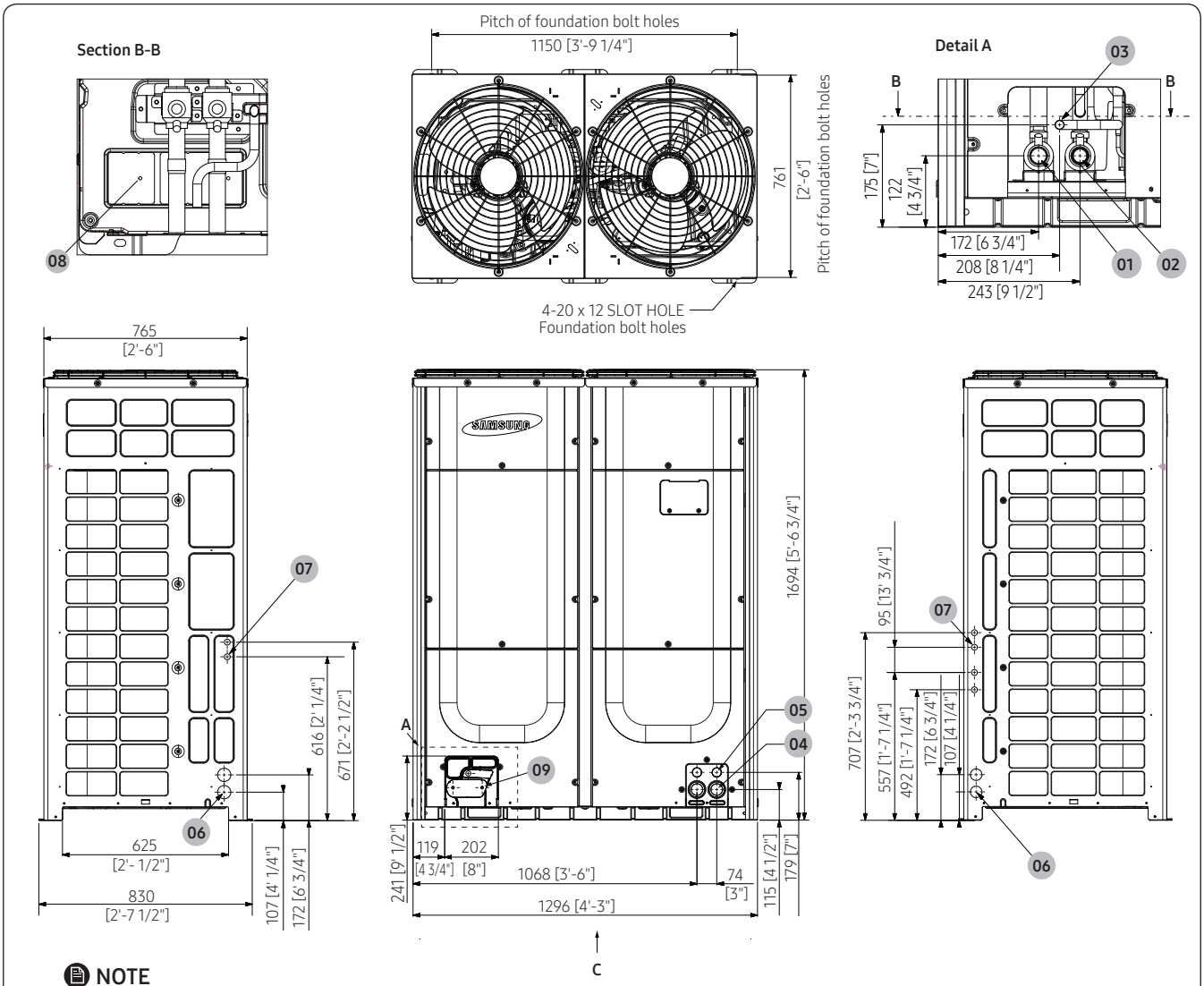
HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52 [3/8]	19.05 [3/4]	15.88 [5/8]
10	9.52 [3/8]	22.22 [7/8]	19.05 [3/4]
12	12.70 [1/2]	28.58 [1-1/8]	19.05 [3/4]
14	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
16	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
18	15.88 [5/8]	28.58 [1-1/8]	22.22 [7/8]
20	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
22	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
24	15.88 [5/8]	34.92 [1-3/8]	28.58 [1-1/8]
26	19.05 [3/4]	34.92 [1-3/8]	28.58 [1-1/8]

NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Low Pressure Gas Ref. pipe	See note 4.	6	Power wiring conduit	Φ44
2	High Pressure Gas Ref. pipe	See note 4.	7	Communication wiring conduit	Φ22
3	Liquid Ref. pipe	See note 4.	8	Knock-out Hole for Ref. Piping (bottom)	
4	Power wiring conduit	Φ44	9	Knock-out Hole for Ref. Piping (front)	
5	Communication wiring conduit	Φ34			

4. Dimensional Drawing

Outdoor unit

- AM140~220JXVHGR

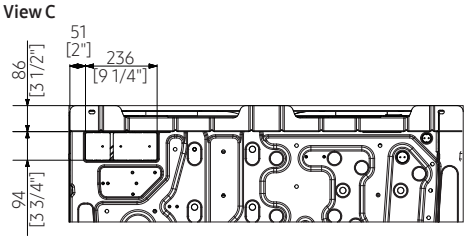


NOTE

1. Detail A and SECTION B-B indicate the dimentsion after fixing the attached piping.
2. Item 4-9 : Knock-out hole.
3. View C indicate the dimension of kock-out hole(bottom).
4. Pipe [Φ, mm(inch)] : Brazing connection

HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52 [3/8]	19.05 [3/4]	15.88 [5/8]
10	9.52 [3/8]	22.22 [7/8]	19.05 [3/4]
12	12.70 [1/2]	28.58 [1-1/8]	19.05 [3/4]
14	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
16	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
18	15.88 [5/8]	28.58 [1-1/8]	22.22 [7/8]
20	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
22	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
24	15.88 [5/8]	34.92 [1-3/8]	28.58 [1-1/8]
26	19.05 [3/4]	34.92 [1-3/8]	28.58 [1-1/8]

View C

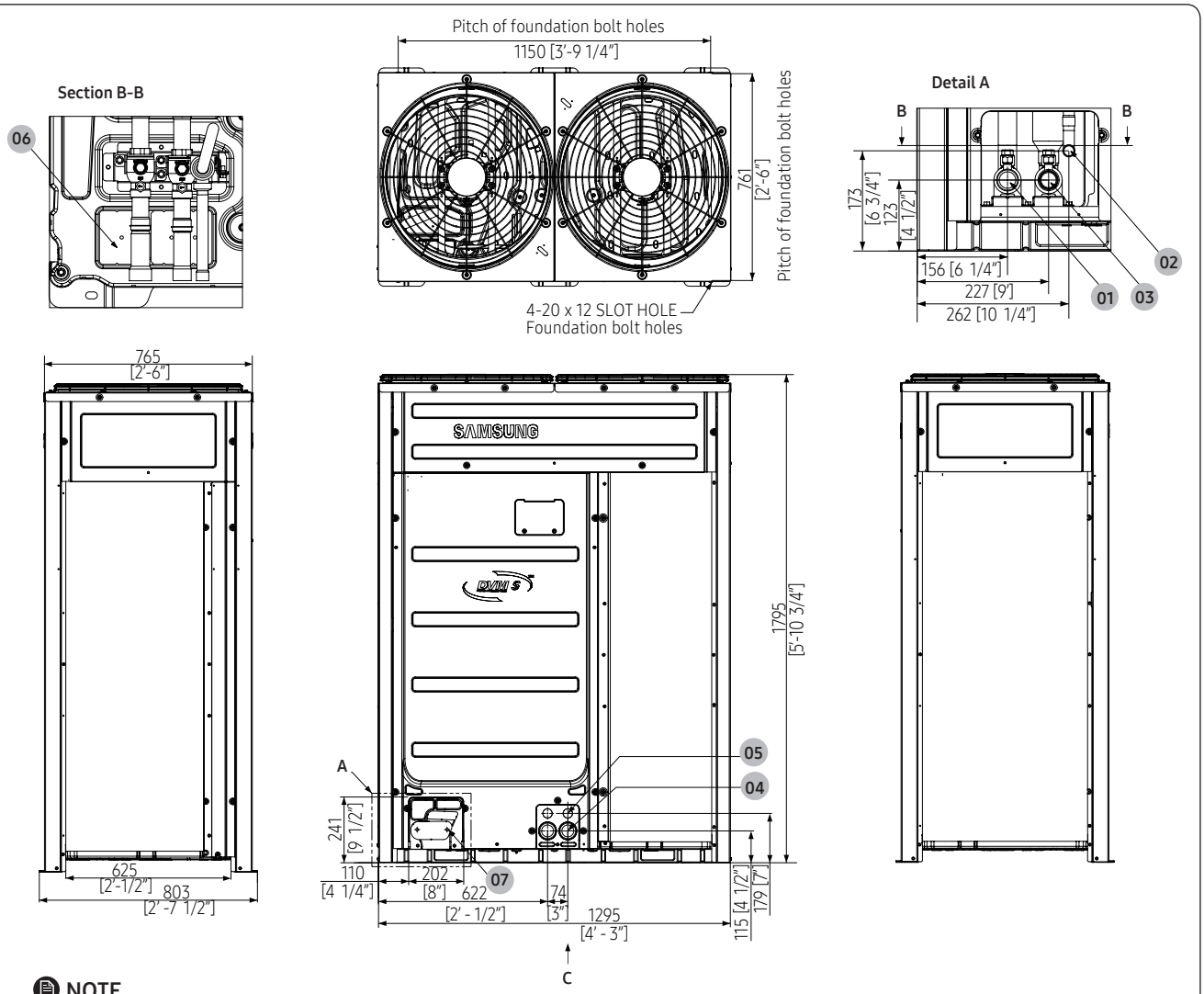


NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Low Pressure Gas Ref. pipe	See note 4.	6	Power wiring conduit	Φ44
2	High Pressure Gas Ref. pipe	See note 4.	7	Communication wiring conduit	Φ22
3	Liquid Ref. pipe	See note 4.	8	Knock-out Hole for Ref. Piping (bottom)	
4	Power wiring conduit	Φ44	9	Knock-out Hole for Ref. Piping (front)	
5	Communication wiring conduit	Φ34			

4. Dimensional Drawing

Outdoor unit

- AM240/260MXVGNR

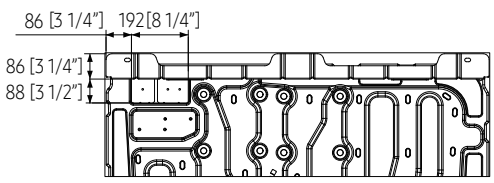


NOTE

1. Detail A and SECTION B-B indicate the dimentsion after fixing the attached piping.
2. Item 4-7 : Knock-out hole.
3. View C indicate the dimension of kock-out hole(bottom).
4. Pipe [Φ, mm(inch)] : Brazing connection

HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52 [3/8]	19.05 [3/4]	15.88 [5/8]
10	9.52 [3/8]	22.22 [7/8]	19.05 [3/4]
12	12.70 [1/2]	28.58 [1-1/8]	19.05 [3/4]
14	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
16	12.70 [1/2]	28.58 [1-1/8]	22.22 [7/8]
18	15.88 [5/8]	28.58 [1-1/8]	22.22 [7/8]
20	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
22	15.88 [5/8]	28.58 [1-1/8]	28.58 [1-1/8]
24	15.88 [5/8]	34.92 [1-3/8]	28.58 [1-1/8]
26	19.05 [3/4]	34.92 [1-3/8]	28.58 [1-1/8]

View C



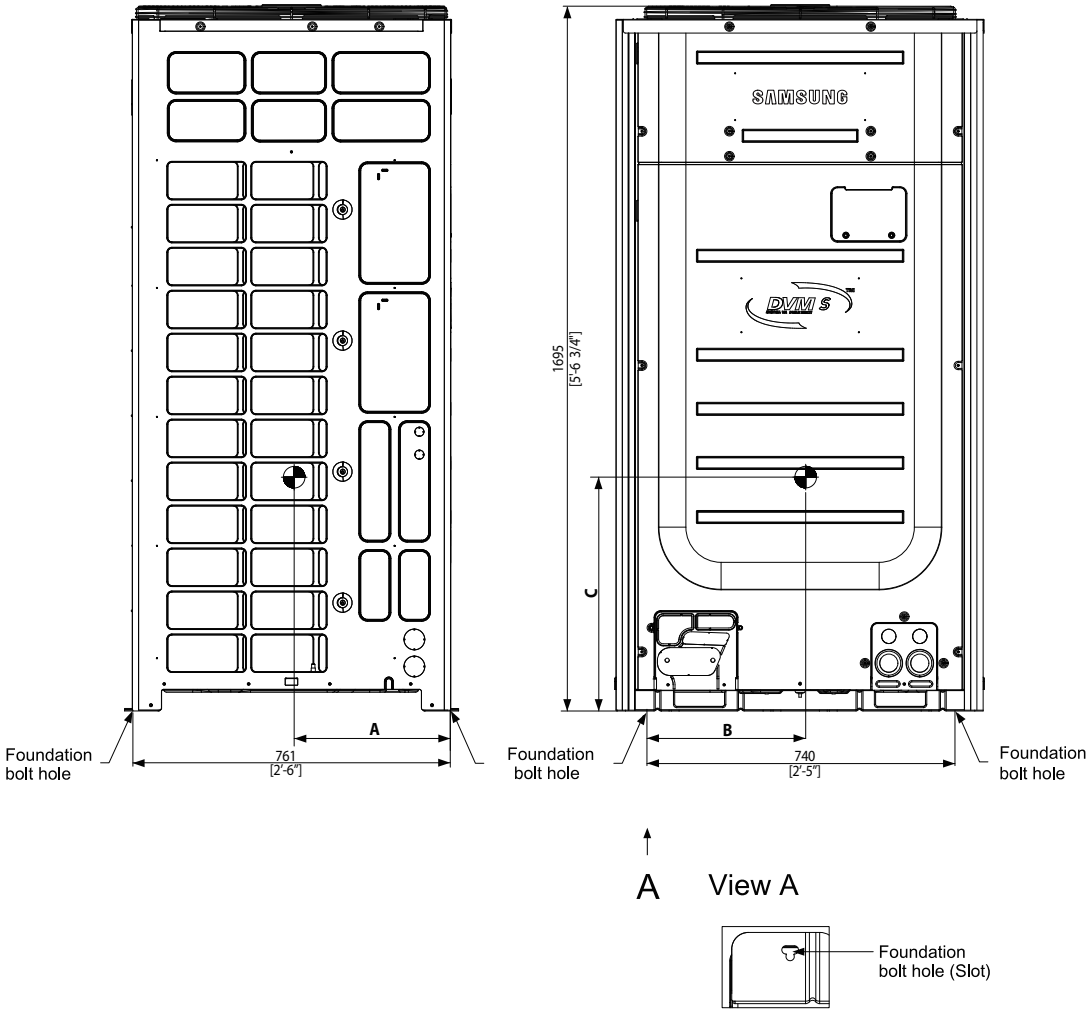
NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Low Pressure Gas Ref. pipe	See note 4.	6	Knock-out Hole for Ref. Piping (bottom)	
2	High Pressure Gas Ref. pipe	See note 4.	7	Knock-out Hole for Ref. Piping (front)	
3	Liquid Ref. pipe	See note 4.			
4	Power wiring conduit	Φ44			
5	Communication wiring conduit	Φ34			

5. Center of Gravity

Outdoor unit

- AM080~120JXVHGR

Units : mm [inches]



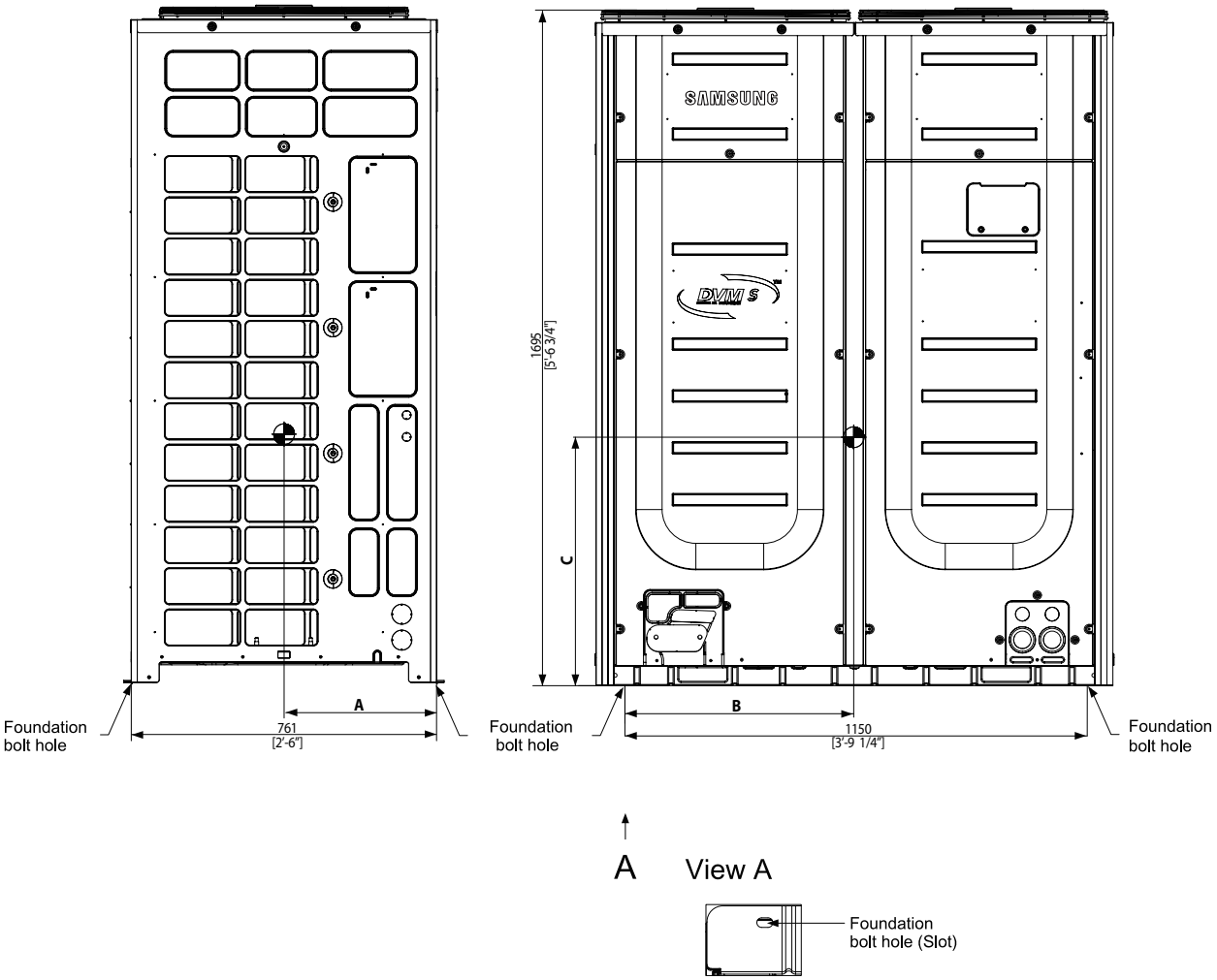
Model	A	B	C
AM080✳✳✳✳✳✳	360 [1'-2 1/4"]	445 [1'-5 1/2"]	560 [1'-10"]
AM100✳✳✳✳✳✳	360 [1'-2 1/4"]	445 [1'-5 1/2"]	560 [1'-10"]
AM120✳✳✳✳✳✳	360 [1'-2 1/4"]	445 [1'-5 1/2"]	560 [1'-10"]

5. Center of Gravity

Outdoor unit

- AM140~220JXVHGR

Units : mm [inches]



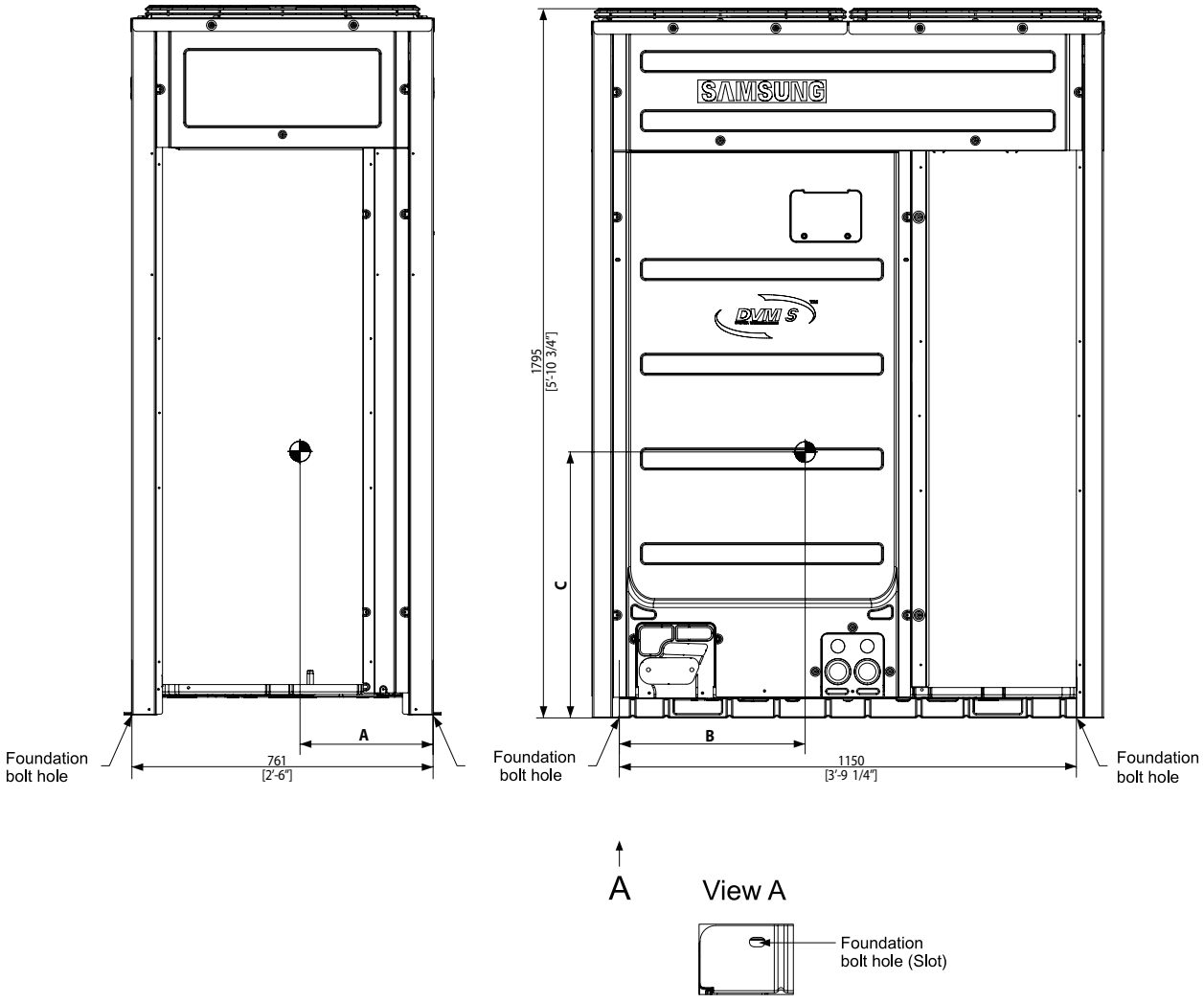
Model	A	B	C
AM140✻✻✻✻✻✻	370 [1'-2 1/2"]	585 [1'-11"]	620 [2'-4"]
AM160✻✻✻✻✻✻	365 [1'-2 3/8"]	640 [2'-12"]	620 [2'-4"]
AM180✻✻✻✻✻✻	365 [1'-2 3/8"]	640 [2'-12"]	620 [2'-4"]
AM200✻✻✻✻✻✻	365 [1'-2 3/8"]	640 [2'-12"]	620 [2'-4"]
AM220✻✻✻✻✻✻	365 [1'-2 3/8"]	640 [2'-12"]	620 [2'-4"]

5. Center of Gravity

Outdoor unit

- AM240/260MXVGNR

Units : mm [inches]

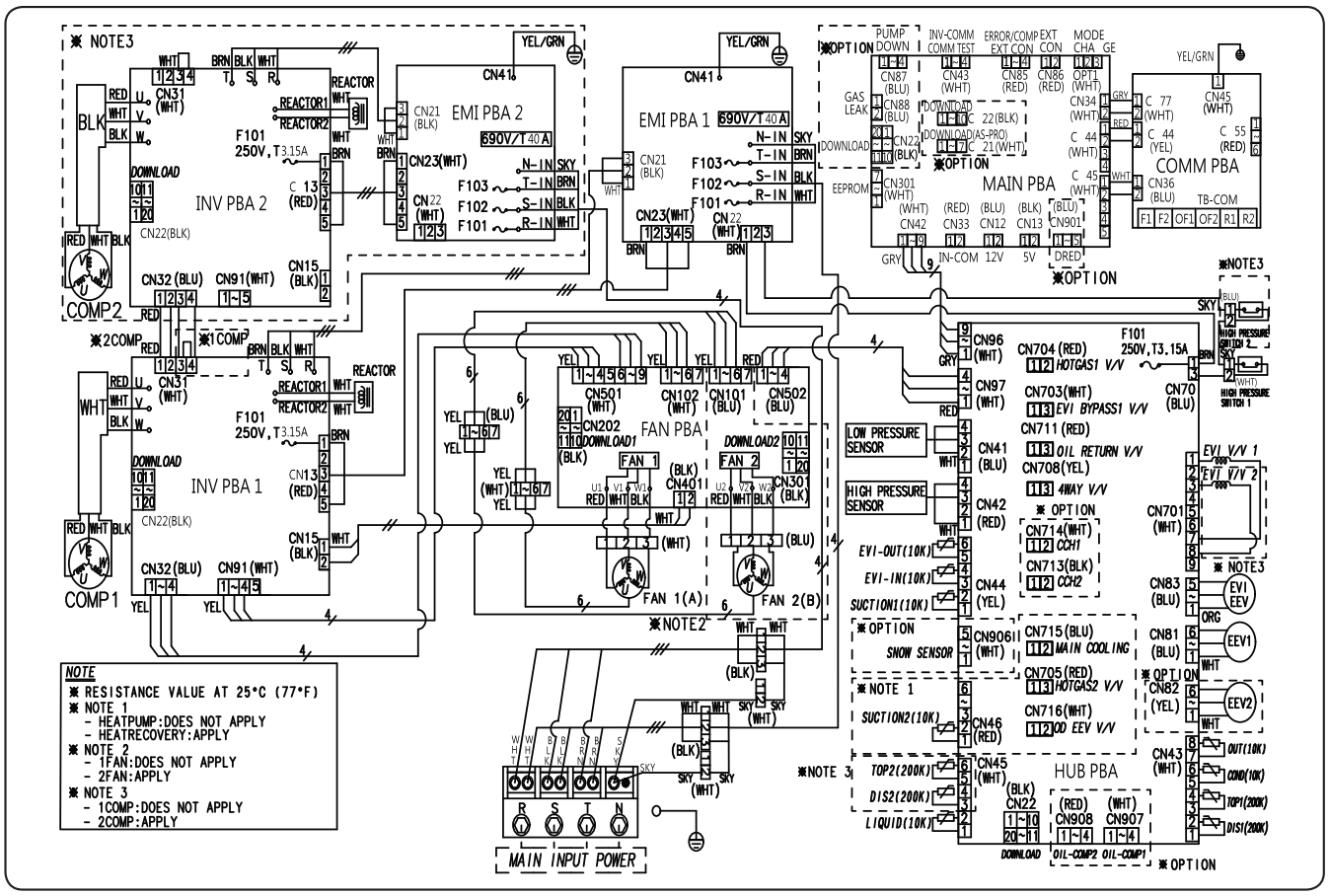


Model	A	B	C
AM240✳✳✳✳✳✳	335 [1'-12"]	565 [1'-10 1/4"]	675 [2'-2 1/2"]
AM260✳✳✳✳✳✳	335 [1'-12"]	565 [1'-10 1/4"]	675 [2'-2 1/2"]

6. Electrical Wiring Diagrams

Outdoor unit

- AM080~220JXVHGR



INV PBA1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)
INV PBA2	Printed circuit board (inverter2)	EEV2	Electronic expansion valve 2	HOTGAS1 V/V	Solenoid valve (Hot Gas Bypass1)
EMI PBA1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS V/V	Solenoid valve (EVI BYPASS)
EMI PBA2	Printed circuit board (emi2)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	RETURN V/V	Solenoid valve (Accumulator Oil Return)
FAN PBA	Printed circuit board (fan motor)	SUCTION1(10K)	Thermistor (Suction Temp.1_10Kohm)	4WAY V/V	Solenoid valve (4 Way valve)
MAIN PBA	Printed circuit board (main)	SUCTION2(10K)	Thermistor (Suction Temp.2_10Kohm)	CCH1	Crank Case Heater (Compressor1)
HUB PBA	Printed circuit board (hub)	SNOW SENSOR	SNOW SENSOR	CCH2	Crank Case Heater (Compressor2)
COMM PBA	Printed circuit board (communication)	OIL-COMP1	Oil-Sensor (Compressor1)	MAIN COOLING	Solenoid valve (Main cooling)
COMP1	Motor (compressor1)	OIL-COMP2	Oil-Sensor (Compressor2)	HOTGAS2 V/V	Solenoid valve (Hot Gas Bypass2)
COMP2	Motor (compressor2)	OUT(10K)	Thermistor (Ambient Temp._10Kohm)	OD EEV V/V	Solenoid valve (Outdoor EEV)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	F101	FUSE (Inverter PBA)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	690V/T40A	FUSE (EMI PBA)
EVI V/V1	Solenode valve (EVI1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	MODE CHANGE	Connector (Remote switching cool/heat selector)
EVI V/V 2	Solenode valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXT CON	Connector (Output EXT CON)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	ERROR/COMP EXT	Connector (Output ERROR/COMP EXT CON)

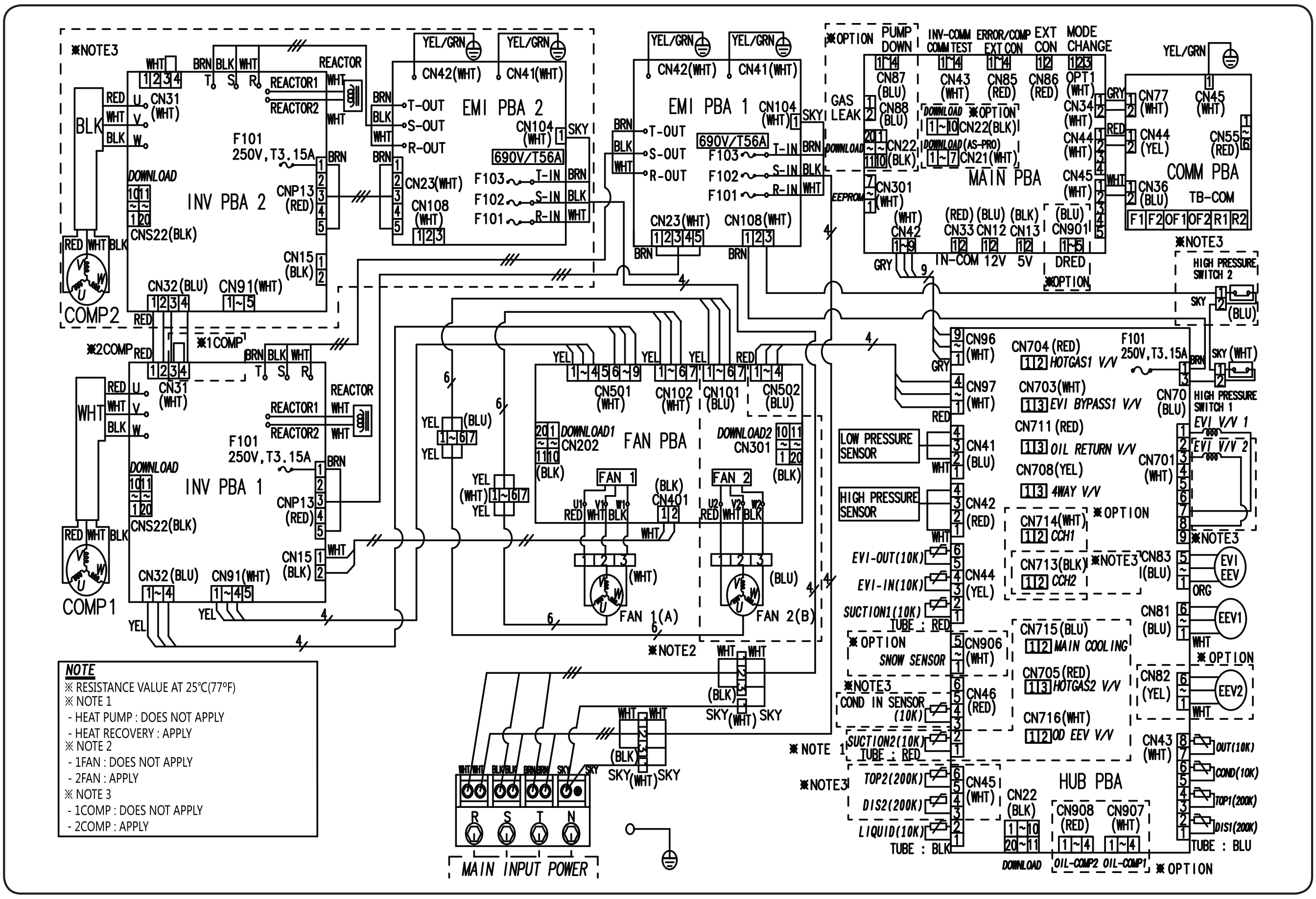
NOTE

- 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, N : The wire quantity

6. Electrical Wiring Diagrams

Outdoor unit

- AM240/260MXVGNR



INV PBA1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)
INV PBA2	Printed circuit board (inverter2)	EEV2	Electronic expansion valve 2	HOTGAS1 V/V	Solenoid valve (Hot Gas Bypass1)
EMI PBA1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	EVI BYPASS V/V	Solenoid valve (EVI BYPASS)
EMI PBA2	Printed circuit board (emi2)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	RETURN V/V	Solenoid valve (Accumulator Oil Return)
FAN PBA	Printed circuit board (fan motor)	SUCTION1(10K)	Thermistor (Suction Temp.1_10Kohm)	4WAY V/V	Solenoid valve (4 Way valve)
MAIN PBA	Printed circuit board (main)	SUCTION2(10K)	Thermistor (Suction Temp.2_10Kohm)	CCH1	Crank Case Heater (Compressor1)
HUB PBA	Printed circuit board (hub)	SNOW SENSOR	SNOW SENSOR	CCH2	Crank Case Heater (Compressor2)
COMM PBA	Printed circuit board (communication)	OIL-COMP1	Oil-Sensor (Compressor1)	MAIN COOLING	Solenoid valve (Main cooling)
COMP1	Motor (compressor1)	OIL-COMP2	Oil-Sensor (Compressor2)	HOTGAS2 V/V	Solenoid valve (Hot Gas Bypass2)
COMP2	Motor (compressor2)	OUT(10K)	Thermistor (Ambient Temp._10Kohm)	OD EEV V/V	Solenoid valve (Outdoor EEV)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	F101	FUSE (Inverter PBA)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	690V/T56A	FUSE (EMI PBA)
EVI V/V1	Solenode valve (EVI1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	MODE CHANGE	Connector (Remote switching cool/heat selector)
EVI V/V 2	Solenode valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXT CON	Connector (Output EXT CON)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	ERROR/COMP EXT	Connector (Output ERROR/COMP EXT CON)

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, N/ : The wire quantity

7. Sound Data

Summary

Premium Compact

Capacity		Model	Sound Pressure dB(A)		Sound Power
HP	kW		Cooling	Heating	dB(A)
8	22.4	AM080JXVHGR/ET	57	59	77
10	28.0	AM100JXVHGR/ET	58	60	78
12	33.6	AM120JXVHGR/ET	62	64	83
14	39.2	AM140JXVHGR/ET	61	63	81
16	44.8	AM160JXVHGR/ET	62	66	82
18	50.4	AM180JXVHGR/ET	63	67	85
20	56.0	AM200JXVHGR/ET	64	67	86
22	61.6	AM220JXVHGR/ET	65	67	88
24	67.2	AM240MXVGNR/ET	69	71	90
26	72.8	AM260MXVGNR/ET	69	71	90
28	78.4	AM280MXVGNR3ET	65	68	86
30	84.0	AM300MXVGNR3ET	66	69	87
32	89.6	AM320MXVGNR3ET	66	69	88
34	95.2	AM340MXVGNR3ET	67	69	89
36	100.8	AM360MXVGNR3ET	66	68	89
38	106.4	AM380MXVGNR3ET	67	70	89
40	112.0	AM400MXVGNR3ET	67	70	90
42	117.6	AM420MXVGNR3ET	68	70	90
44	123.2	AM440MXVGNR3ET	68	70	91
46	128.8	AM460MXVGNR3ET	70	72	92
48	134.4	AM480MXVGNR3ET	70	72	92
50	140.0	AM500MXVGNR3ET	72	74	93
52	145.6	AM520MXVGNR3ET	72	74	93
54	151.2	AM540MXVGNR3ET	69	71	91
56	156.8	AM560MXVGNR3ET	69	71	92
58	162.4	AM580MXVGNR3ET	69	71	91
60	168.0	AM600MXVGNR3ET	69	71	92
62	173.6	AM620MXVGNR3ET	69	72	92
64	179.2	AM640MXVGNR3ET	69	72	92
66	184.8	AM660MXVGNR3ET	70	72	93
68	190.4	AM680MXVGNR3ET	72	74	94
70	196.0	AM700MXVGNR3ET	72	74	94
72	201.6	AM720MXVGNR3ET	73	75	94
74	207.2	AM740MXVGNR3ET	73	75	94
76	212.8	AM760MXVGNR3ET	74	76	95
78	218.4	AM780MXVGNR3ET	74	76	95
80	224.0	AM800MXVGNR3ET	72	74	94

Premium Energy Efficiency

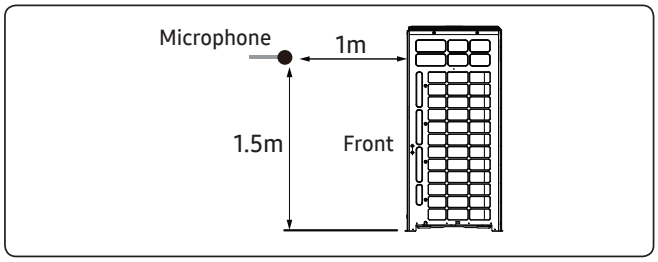
Capacity		Model	Sound Pressure dB(A)		Sound Power
HP	kW		Cooling	Heating	dB(A)
8	22.4	AM080JXVHGR/ET	57	59	77
10	28.0	AM100JXVHGR/ET	58	60	78
12	33.6	AM120JXVHGR/ET	62	64	83
14	39.2	AM140JXVHGR/ET	61	63	81
16	44.8	AM160JXVHGR/ET	62	66	82
18	50.4	AM180JXVHGR/ET	63	67	85
20	56.0	AM200JXVHGR/ET	64	67	86
22	61.6	AM220MXVGNR4ET	63	65	84
24	67.2	AM240MXVGNR4ET	65	67	86
26	72.8	AM260MXVGNR4ET	64	68	86
28	78.4	AM280MXVGNR4ET	65	68	87
30	84.0	AM300MXVGNR4ET	66	69	87
32	89.6	AM320MXVGNR4ET	65	68	86
34	95.2	AM340MXVGNR4ET	65	68	86
36	100.8	AM360MXVGNR4ET	66	70	88
38	106.4	AM380MXVGNR4ET	67	70	89
40	112.0	AM400MXVGNR4ET	66	69	87
42	117.6	AM420MXVGNR4ET	66	69	88
44	123.2	AM440MXVGNR4ET	67	70	88
46	128.8	AM460MXVGNR4ET	67	70	89
48	134.4	AM480MXVGNR4ET	67	70	89
50	140.0	AM500MXVGNR4ET	67	71	89
52	145.6	AM520MXVGNR4ET	70	73	91
54	151.2	AM540MXVGNR4ET	70	73	92
56	156.8	AM560MXVGNR4ET	71	73	92
58	162.4	AM580MXVGNR4ET	72	74	93
60	168.0	AM600MXVGNR4ET	71	74	92
62	173.6	AM620MXVGNR4ET	68	72	90
64	179.2	AM640MXVGNR4ET	68	72	90
66	184.8	AM660MXVGNR4ET	69	72	91
68	190.4	AM680MXVGNR4ET	69	72	90
70	196.0	AM700MXVGNR4ET	71	74	92
72	201.6	AM720MXVGNR4ET	69	73	91
74	207.2	AM740MXVGNR4ET	69	73	91
76	212.8	AM760MXVGNR4ET	70	73	92
78	218.4	AM780MXVGNR4ET	70	73	92
80	224.0	AM800MXVGNR4ET	71	74	93

NOTE

- 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
- Sound Power Level
  - 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 Pressure level

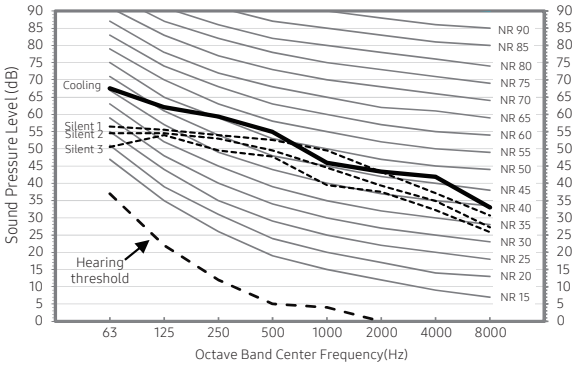


Unit: dB(A)

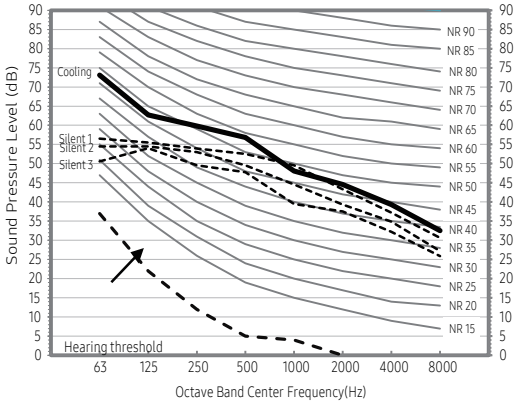
Model	Cooling	Silent 1	Silent 2	Silent 3
AM080JXVHGR/ET	57	54	52	49
AM100JXVHGR/ET	58	55	52	49
AM120JXVHGR/ET	62	55	52	49
AM140JXVHGR/ET	61	57	55	49

- NR Curve

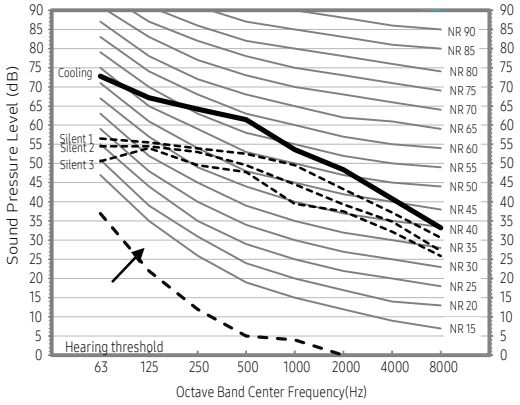
1) AM080JXVHGR/ET



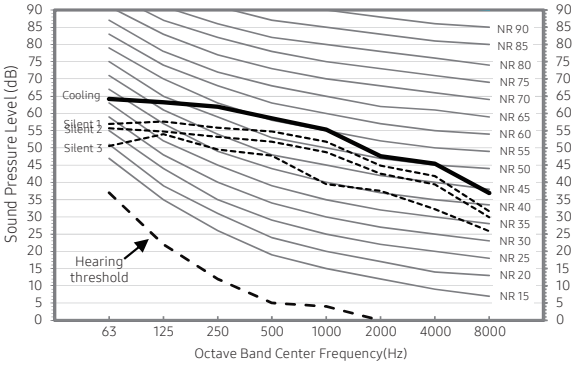
2) AM100JXVHGR/ET



3) AM120JXVHGR/ET



4) AM140JXVHGR/ET

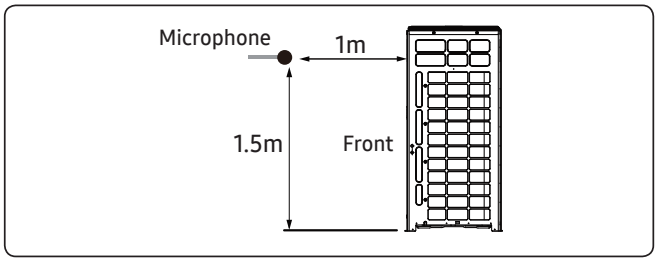


NOTE

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

7. Sound Data

Sound Pressure level

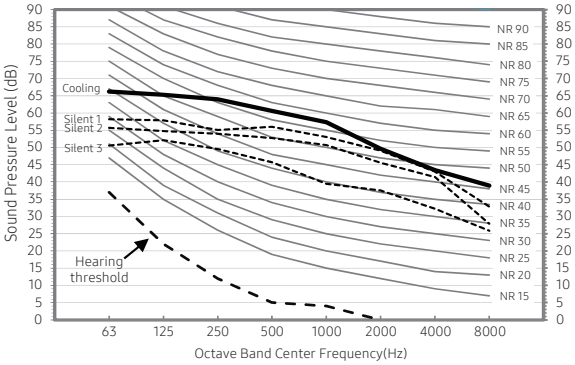


Unit: dB(A)

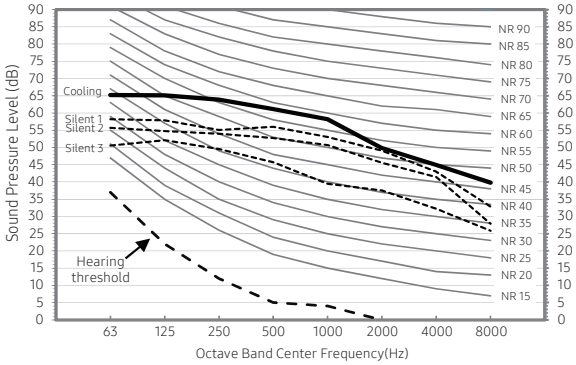
Model	Cooling	Silent 1	Silent 2	Silent 3
AM160JXVHGR/ET	62	59	56	49
AM180JXVHGR/ET	63	59	56	49
AM200JXVHGR/ET	64	59	56	49
AM220JXVHGR/ET	65	59	56	49

- NR Curve

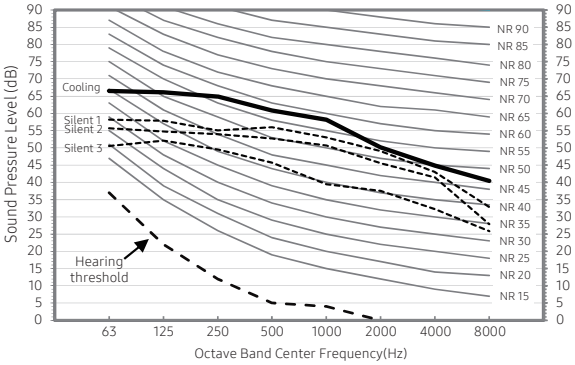
1) AM160JXVHGR/ET



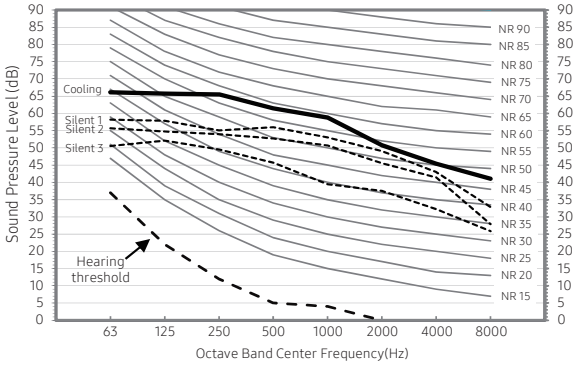
2) AM180JXVHGR/ET



3) AM200JXVHGR/ET



4) AM220JXVHGR/ET



NOTE

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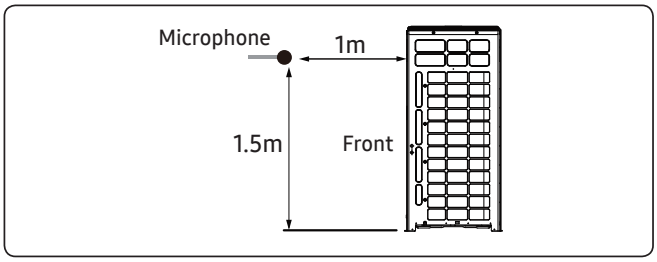
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound Pressure level

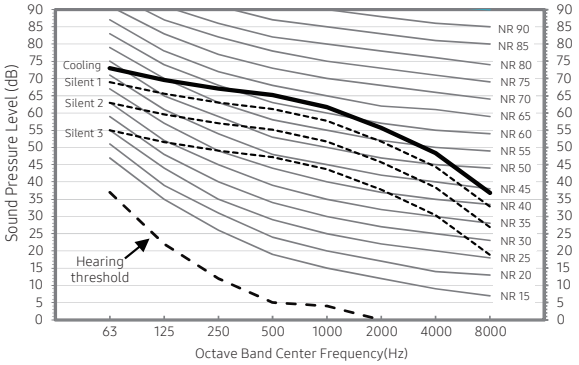


Unit: dB(A)

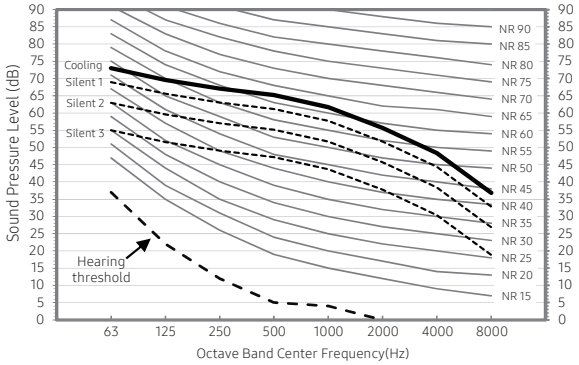
Model	Cooling	Silent 1	Silent 2	Silent 3
AM240MXVGNR/ET	69	63	57	49
AM260MXVGNR/ET	69	63	57	49

- NR Curve

1) AM240MXVGNR/ET



2) AM260MXVGNR/ET



NOTE

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

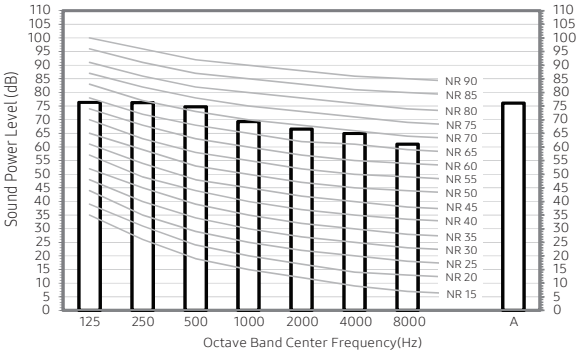
7. Sound Data

Sound Power level

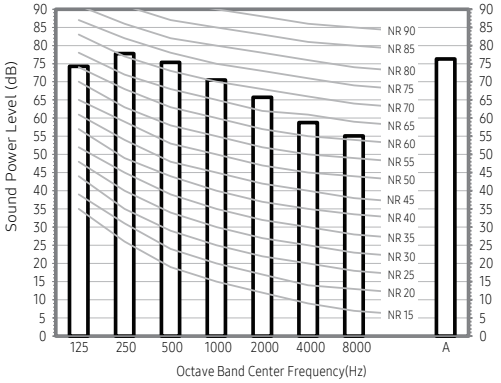
Unit: dB(A)

Model	Power
AM080JXVHGR/ET	77
AM100JXVHGR/ET	78
AM120JXVHGR/ET	83
AM140JXVHGR/ET	81

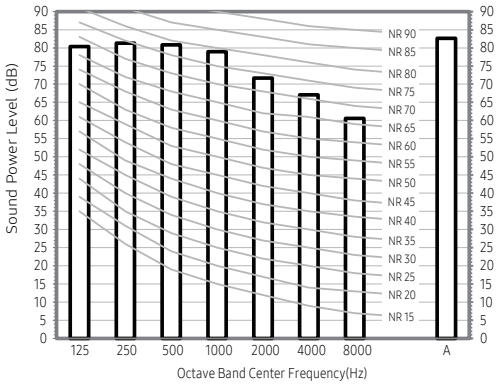
1) AM080JXVHGR/ET



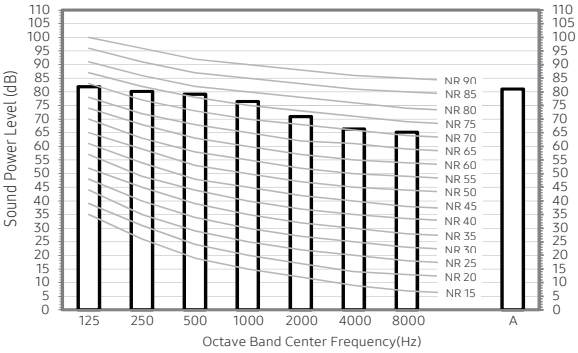
2) AM100JXVHGR/ET



3) AM120JXVHGR/ET



4) AM140JXVHGR/ET



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.

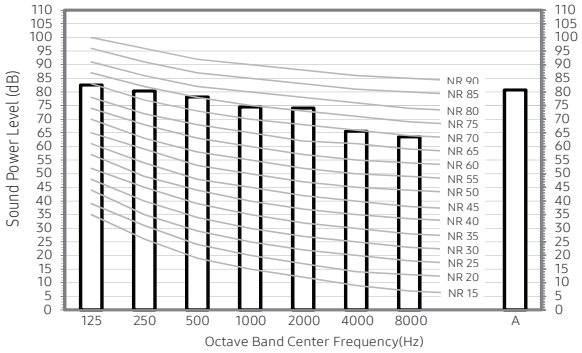
7. Sound Data

Sound Power level

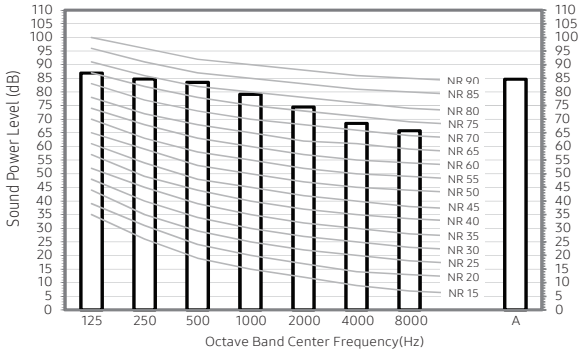
Unit: dB(A)

Model	Power
AM160JXVHGR/ET	82
AM180JXVHGR/ET	85
AM200JXVHGR/ET	86
AM220JXVHGR/ET	88

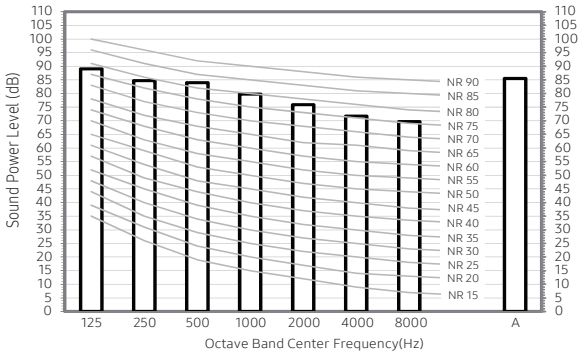
1) AM160JXVHGR/ET



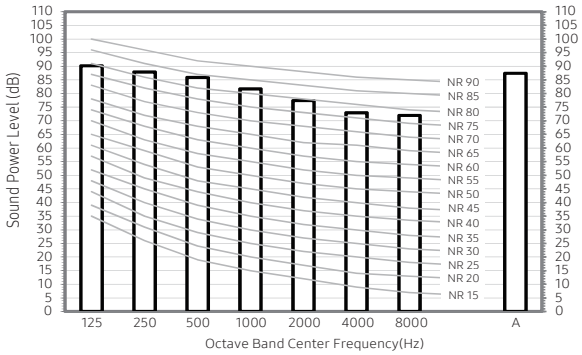
2) AM180JXVHGR/ET



3) AM200JXVHGR/ET



4) AM220JXVHGR/ET



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.

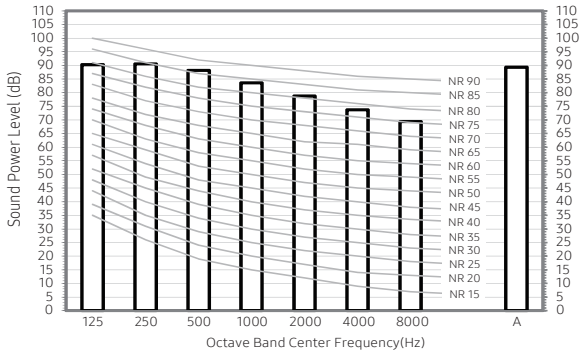
7. Sound Data

Sound Power level

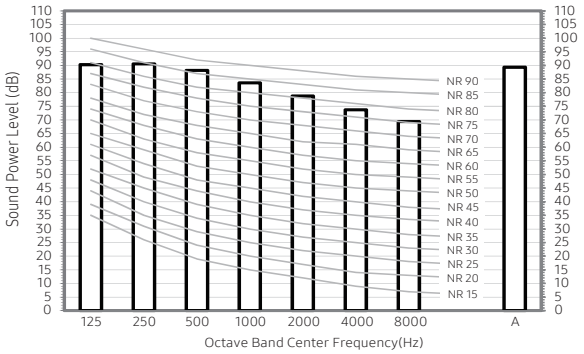
Unit: dB(A)

Model	Power
AM240MXVGNR/ET	90
AM260MXVGNR/ET	90

1) AM240MXVGNR/ET



2) AM260MXVGNR/ET

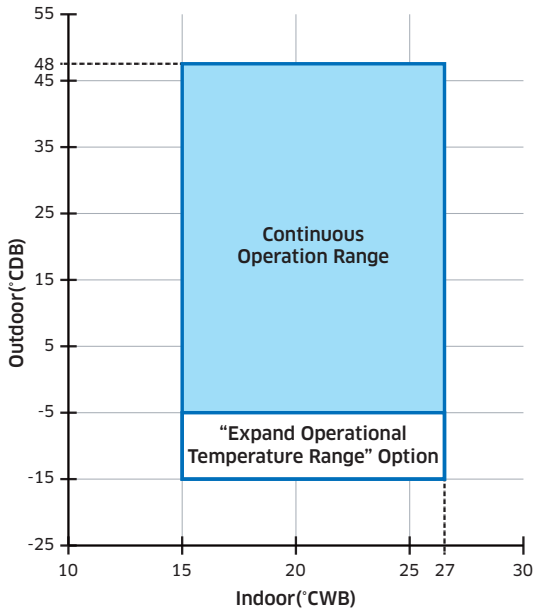


NOTE

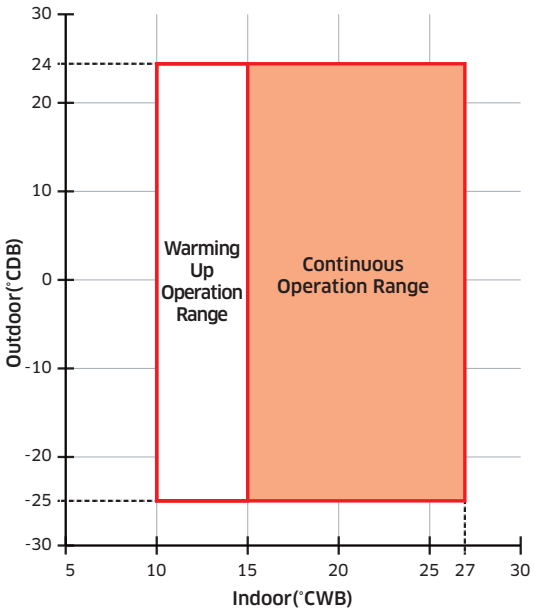
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

8. Operation Range

Cooling



Heating



(1) The operating range is shown in these figures

(2) The assumed installation condtions 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 heatlng mode, operating is possible under warming up operation range. However continus opearting 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 :

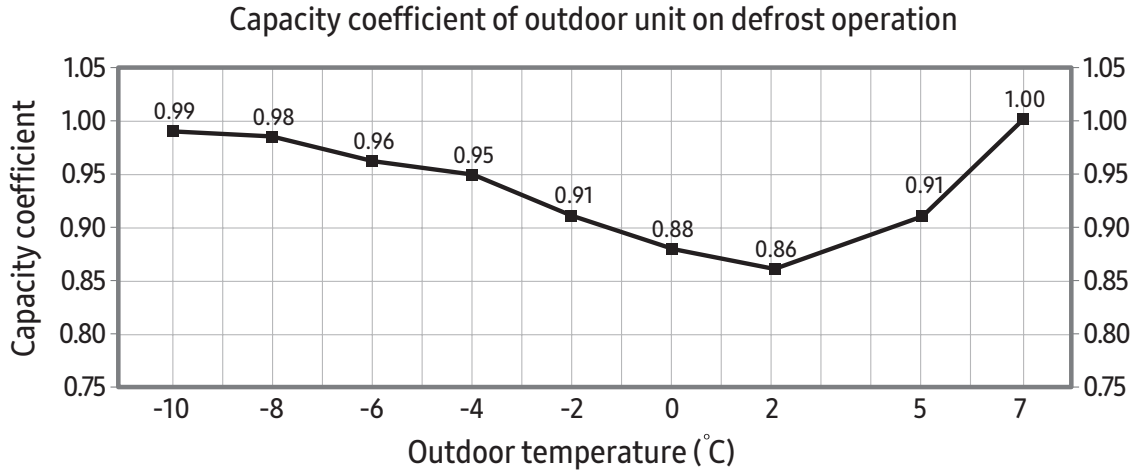
Formula : A = B × C

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.

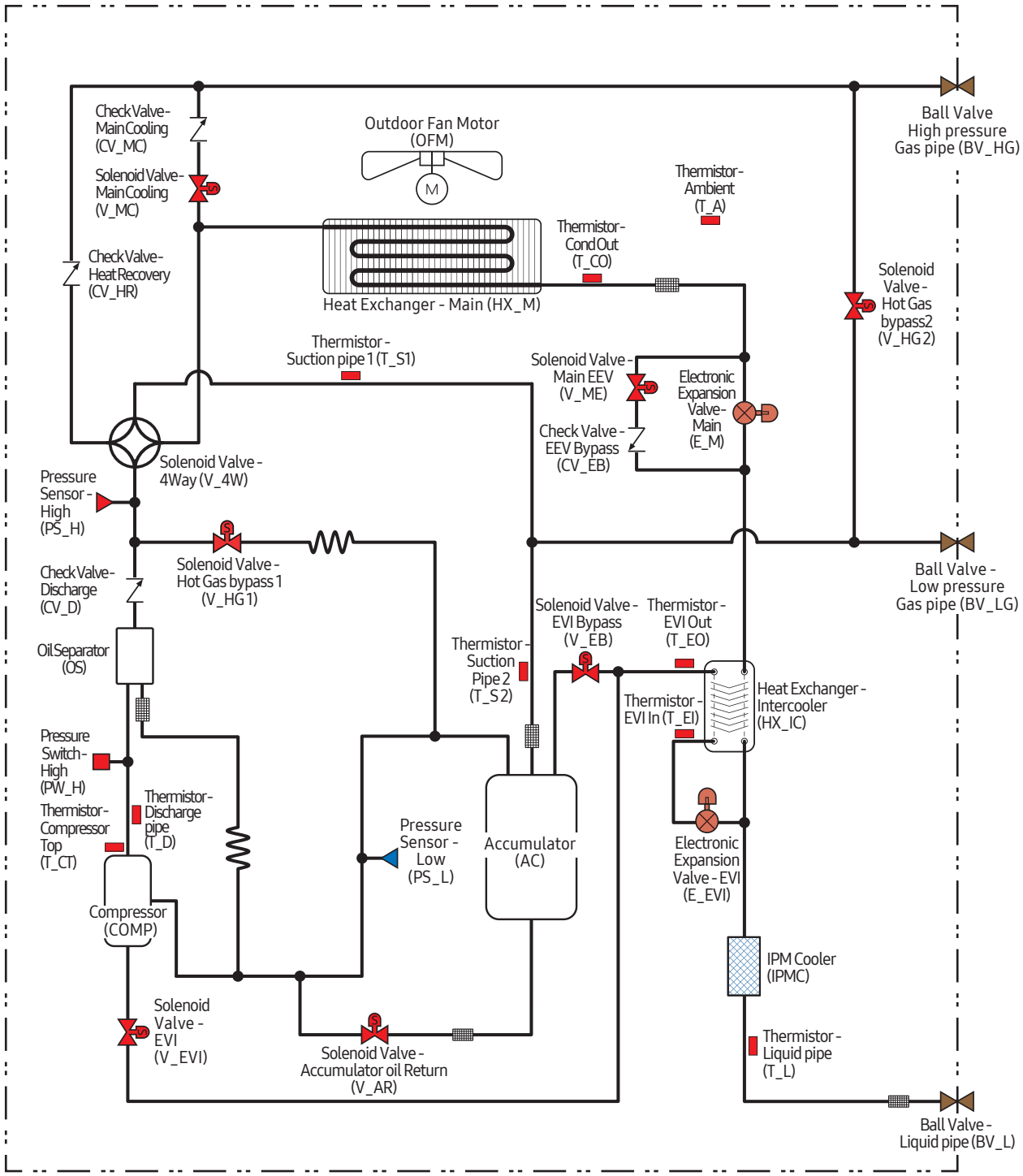
Since the outdoor temperature over 0 °C, the heating performance is the same before and after applying intelligence defrost operation

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

9. Piping Diagram

Outdoor unit

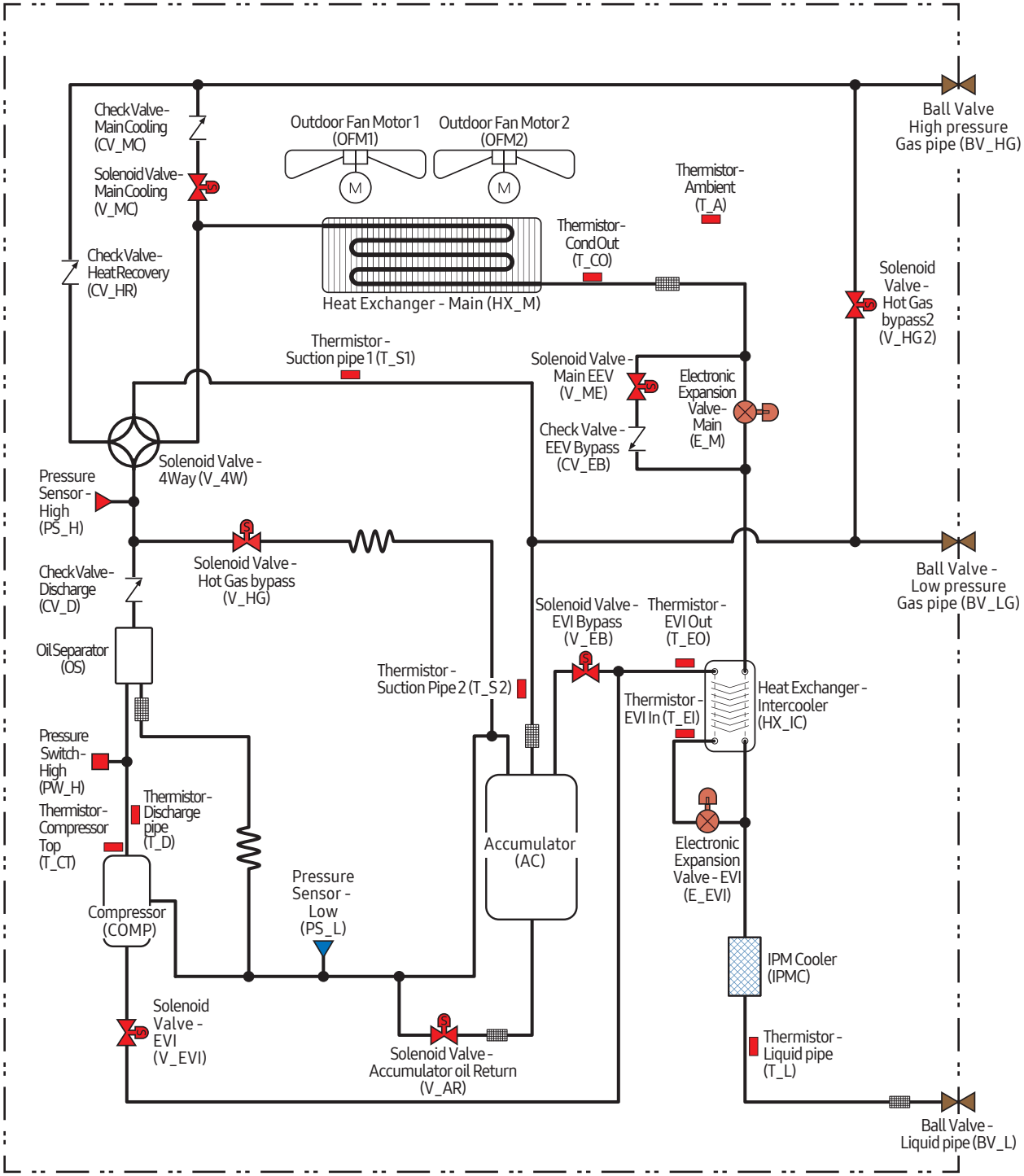
(1) AM080~120JXVHGR



9. Piping Diagram

Outdoor unit

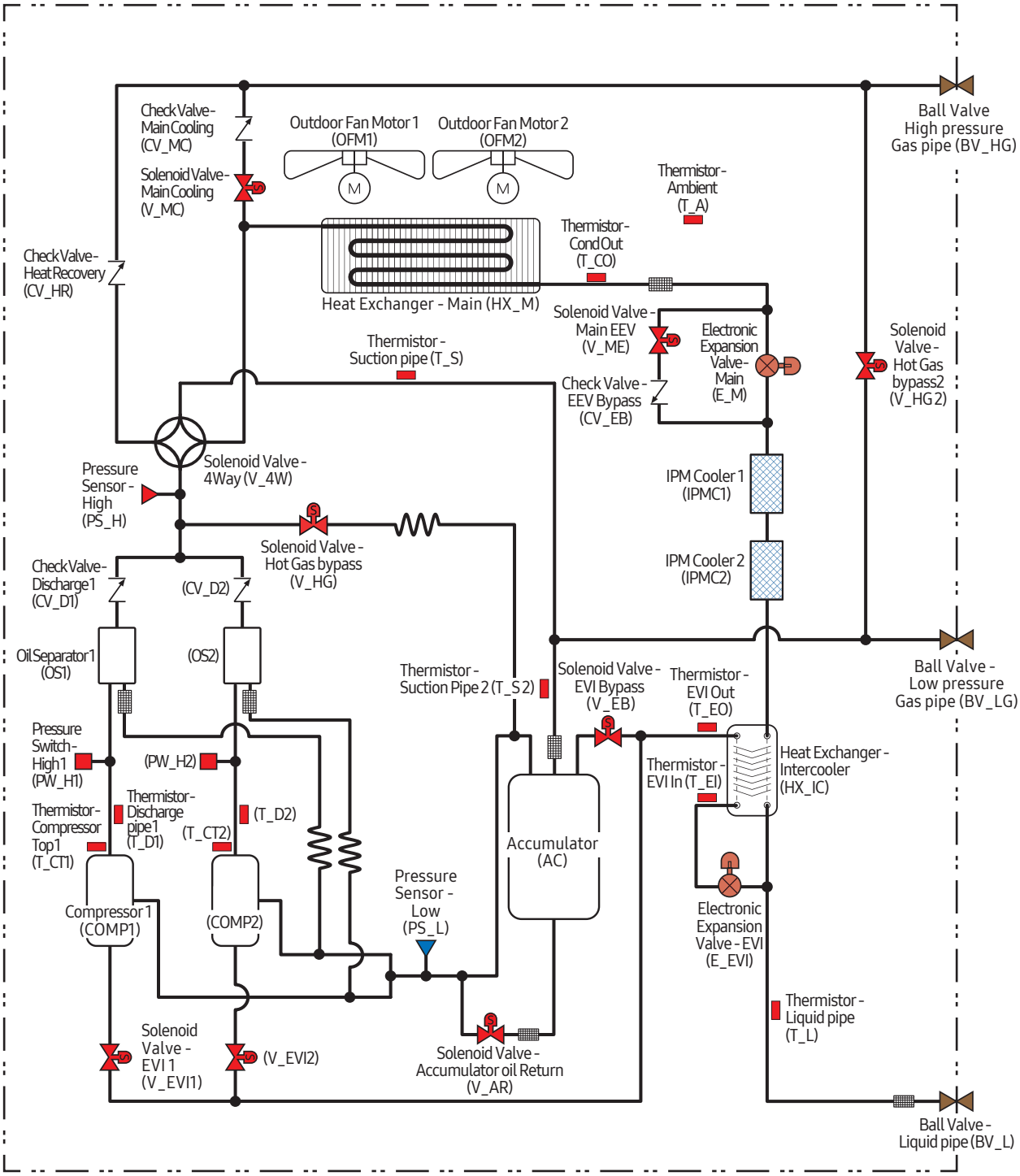
(2) AM140JXVHGR



9. Piping Diagram

Outdoor unit

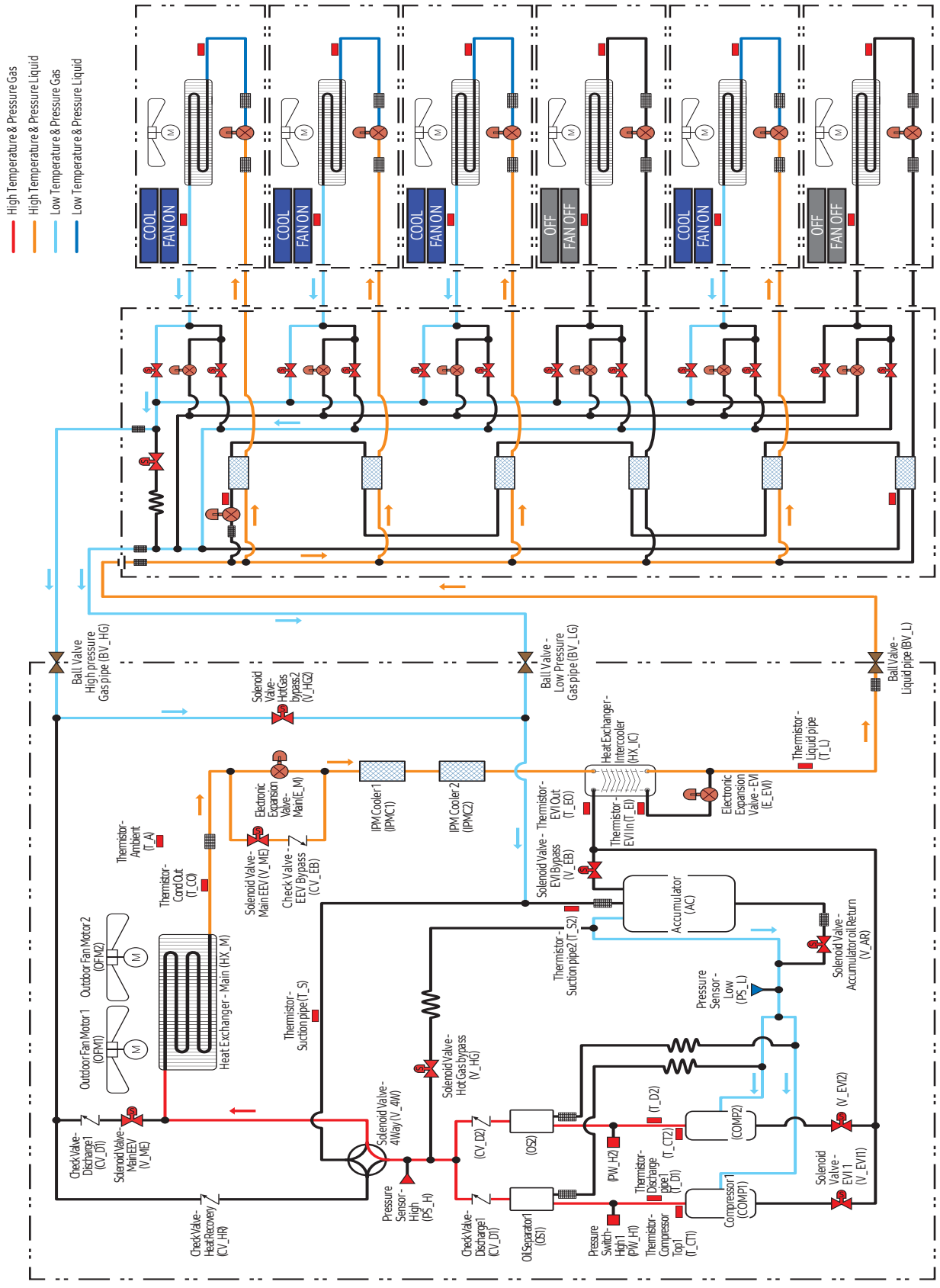
(3) AM240/260MXVGNR



9. Piping Diagram

Cooling System

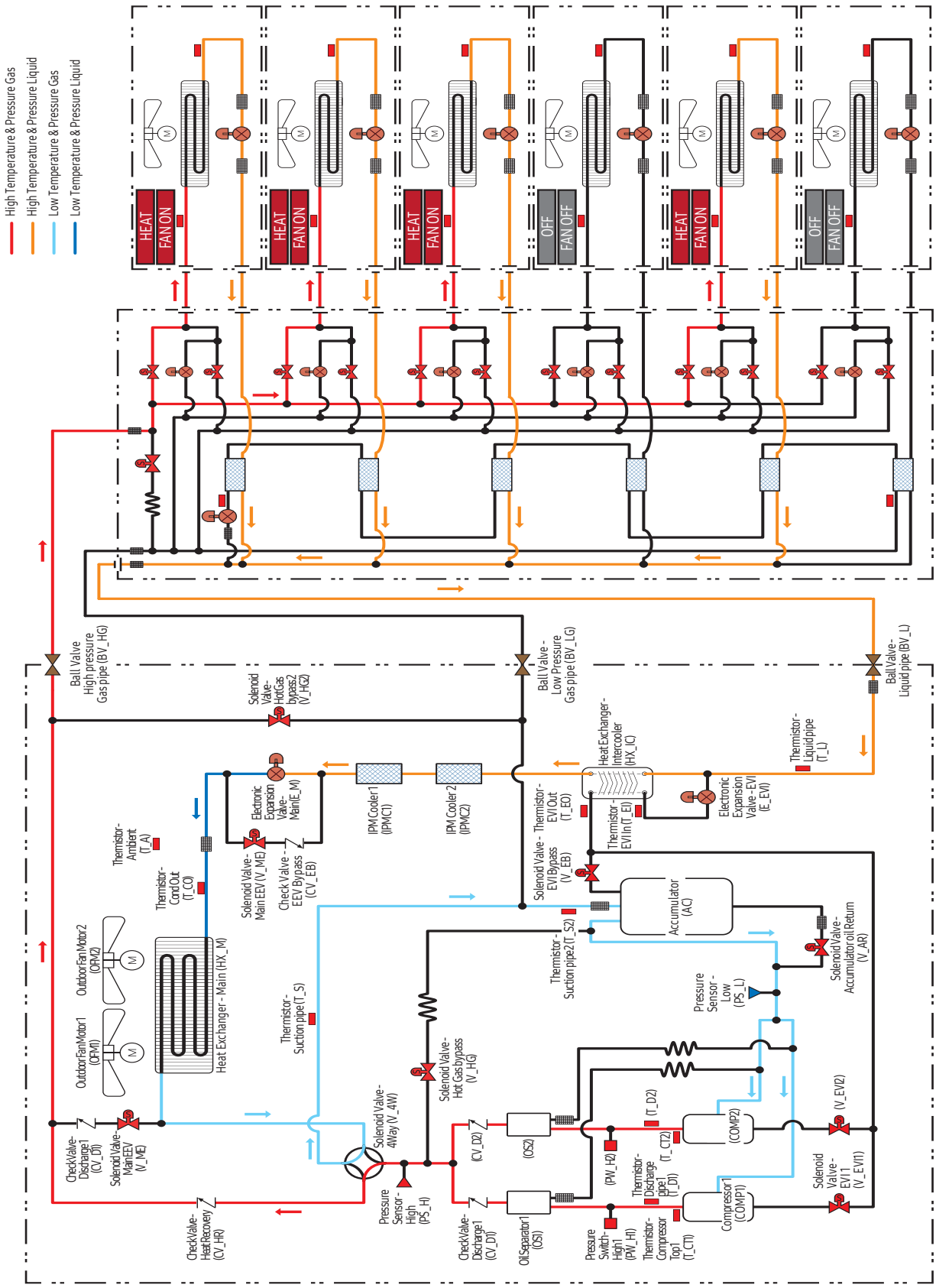
- 20HP with indoor units



9. Piping Diagram

Heating System

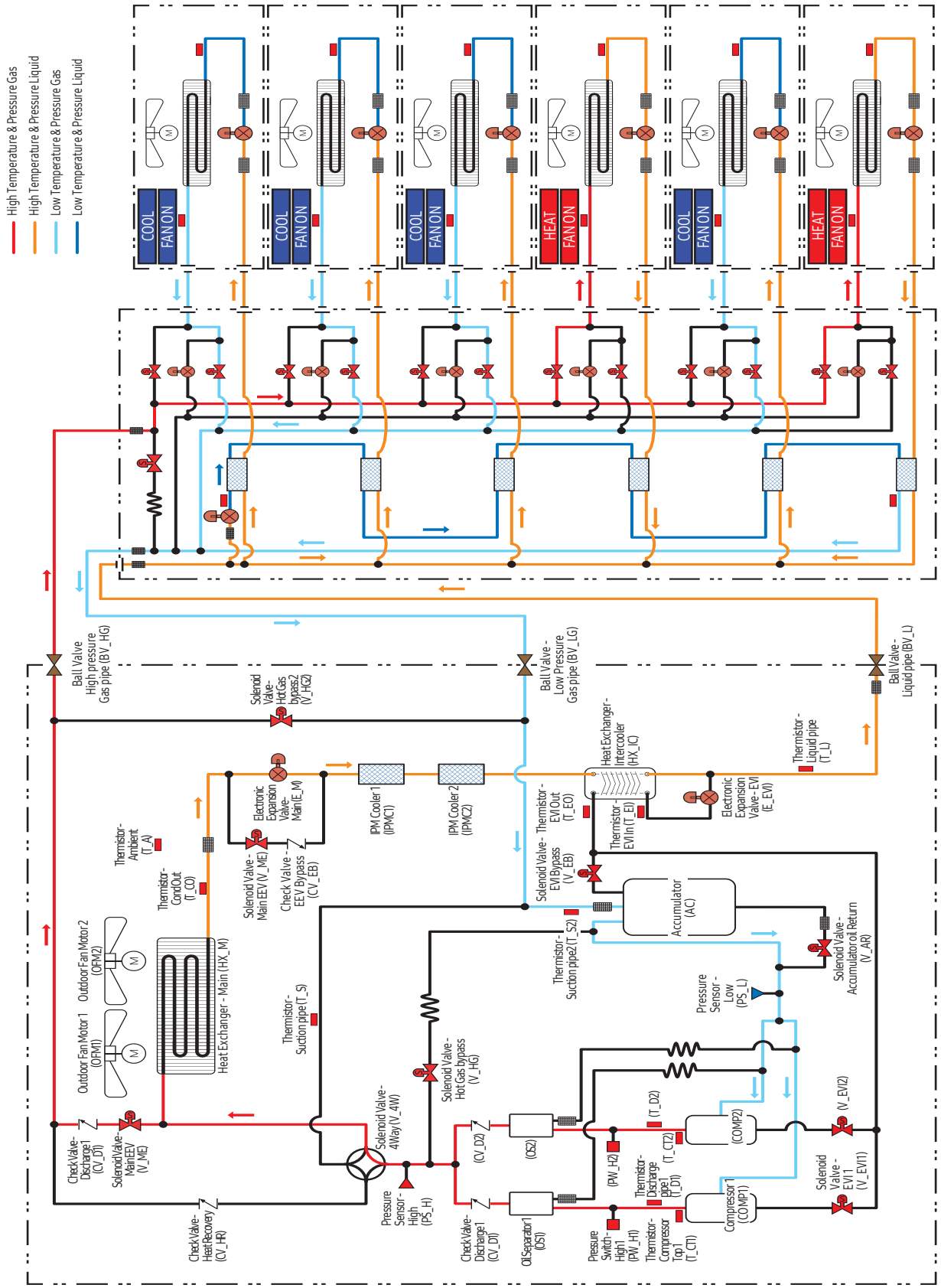
- 20HP with indoor units



9. Piping Diagram

Main Cooling System

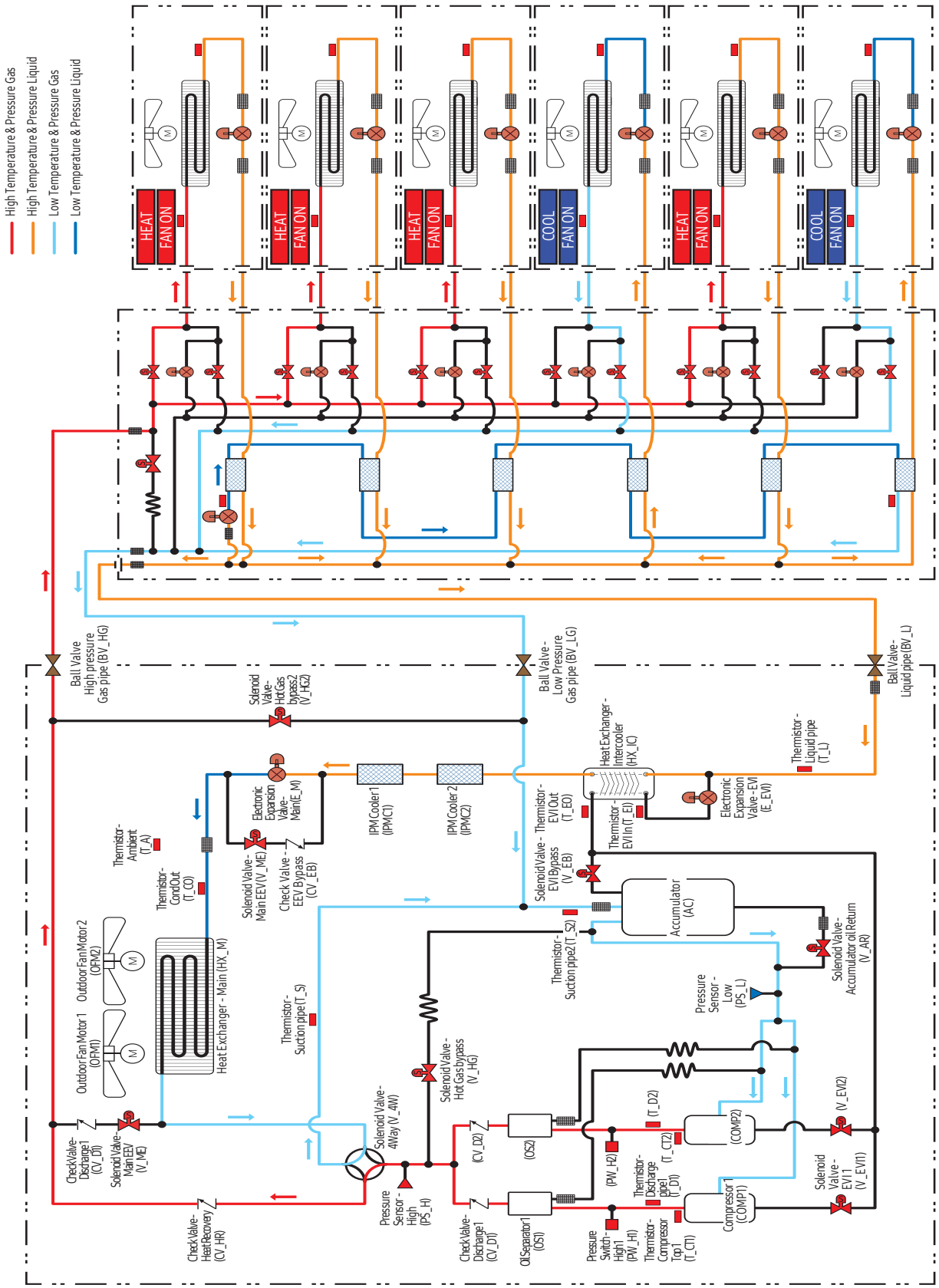
- 20HP with indoor units



9. Piping Diagram

Main Heating System

- 20HP with indoor units

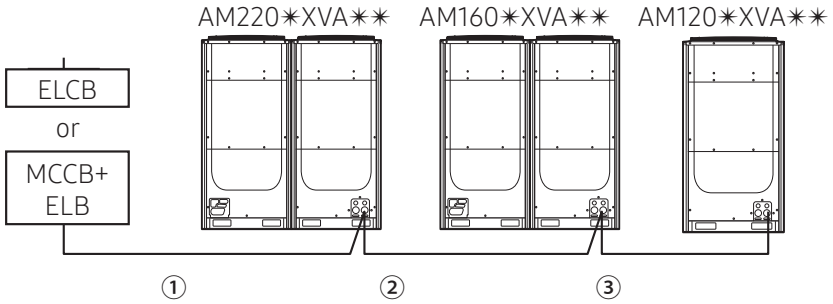


10. Installation

Electrical wiring work

- 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✳XVA✳✳



—① — AM500✳XVA✳✳ : 35 mm²

—② — AM280✳XVA✳✳ : 16 mm²

—③ — AM120✳XVA✳✳ : 4 mm²

NOTE

- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the table (on the left page) at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which fulfills the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to Ssc(*2) at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to Ssc(*2).

[Ssc (*2)]

Model	Ssc [MVA]
AM080JXVHGH/ET	3.1
AM100JXVHGH/ET	4.5
AM120JXVHGH/ET	5.3
AM140JXVHGH/ET	5.3
AM160JXVHGH/ET	6.6
AM180JXVHGH/ET	7.6
AM200JXVHGH/ET	8.0
AM220JXVHGH/ET	8.6
AM240KXVGGH/ET	12.5
AM260KXVGGH/ET	12.2
AM080JXVHGR/ET	3.1
AM100JXVHGR/ET	4.5
AM120JXVHGR/ET	5.3
AM140JXVHGR/ET	5.3
AM160JXVHGR/ET	6.6
AM180JXVHGR/ET	7.6
AM200JXVHGR/ET	8.0
AM220JXVHGR/ET	8.6
AM240MXVGNR/ET	12.5
AM260MXVGNR/ET	12.2

Model	Ssc [MVA]
AM080JXVAGH/ET	3.1
AM100JXVAGH/ET	4.5
AM120JXVAGH/ET	5.3
AM140KXVAGH/ET	5.4
AM160KXVAGH/ET	7.2
AM180KXVAGH/ET	8.8
AM200KXVAGH/ET	8.1
AM220KXVAGH/ET	8.6
AM240KXVAGH/ET	12.5
AM260KXVAGH/ET	12.2
AM100MXVDGH/ET	4.5
AM120MXVDGH/ET	5.3
AM140MXVDGH/ET	5.4
AM160MXVDGH/ET	7.2
AM180MXVDGH/ET	8.8

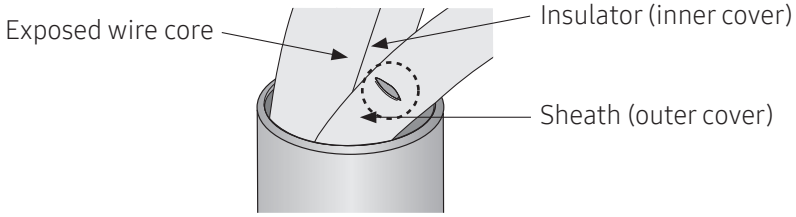
10. Installation

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.



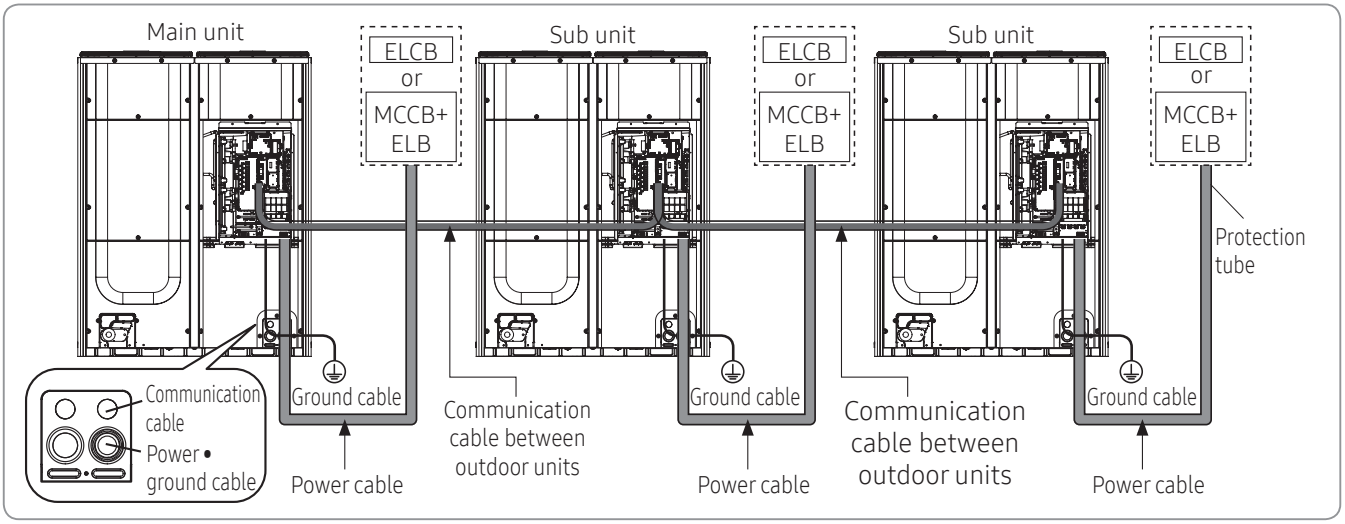
<The example of exposed core wire>

10. Installation

Electrical wiring work

Power and communication cable configuration

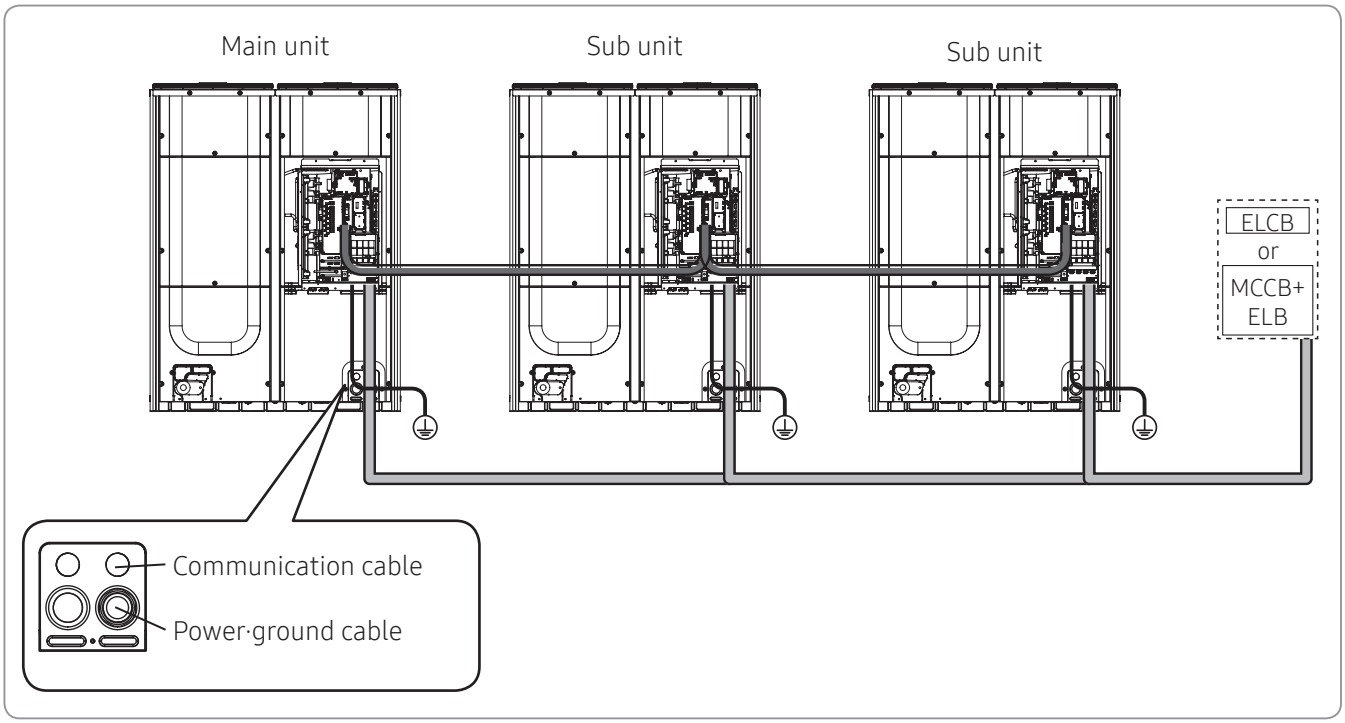
- Main power and the ground cable must be withdrawn through the knock-out hole on the bottom-right or right side of the cabinet.
- Withdraw the communication cable from the designated knock-out hole on the bottom-right side of the front part.
- Install the power and communication cable using separate 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

<When the module combination is in the tables of "Outdoor unit combination">



Communication cable between outdoor units

Power cable

Protection tube

Power/ground cable

Specification of the protection tube

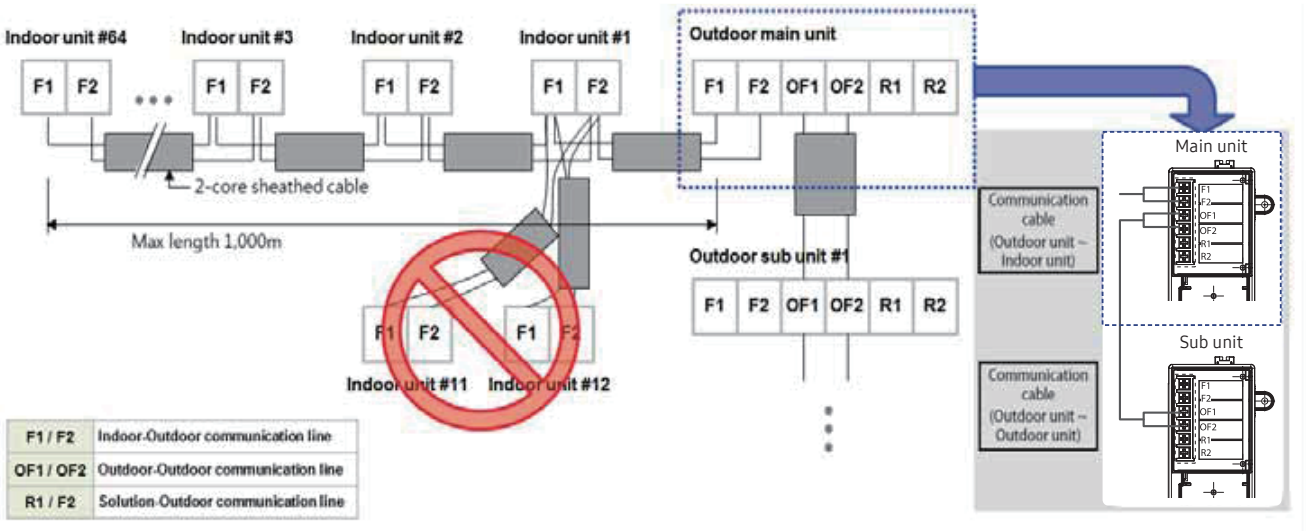
Name	Temper grade	Applicable conditions
Flexible PVC conduit	PVC	When the protection tube is installed indoor and not exposed to outside, because it is embedded in concrete structure
Class 1 flexible conduit	Galvanized steel sheet	When the protection tube is installed indoor but exposed to outside so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

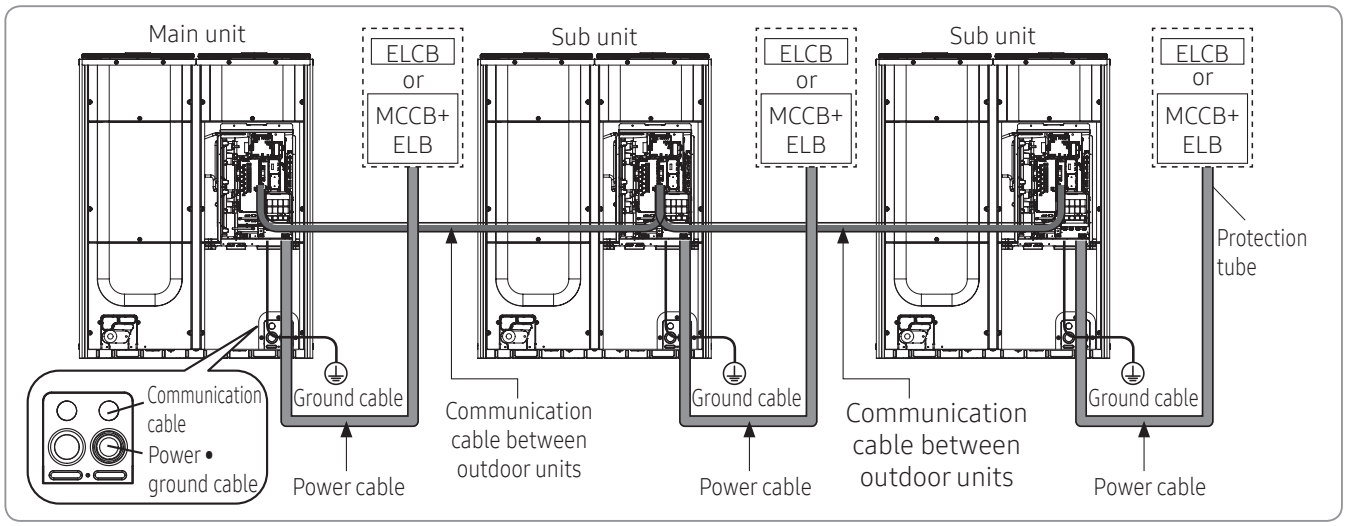
10. Installation

Electrical wiring work

Specification of Cable and Connecting method

- For communication cable, 2-core sheathed vinyl cable should be used which satisfies nominal area of 0.75~1.25mm2 thickness. If 2 or more than 3 communication are connected with one cable which is 4, 6 or more strands, communication malfunction could be caused. Only 2-core sheathed vinyl cable should be used for one communication line.
- Maximum connecting length is limited to 1000 m, so you should follow this limit not to cause malfunction of communication.
- Maximum number of units that can be connected to the outdoor main unit is 64, so do not exceed this limit.
- Communication cable should be connected in series as in the figure below, and malfunction of communication can be occur if many units are connected to the same terminal.
- Communication cable between indoor and outdoor units and communication cable between outdoor units has no polarity.





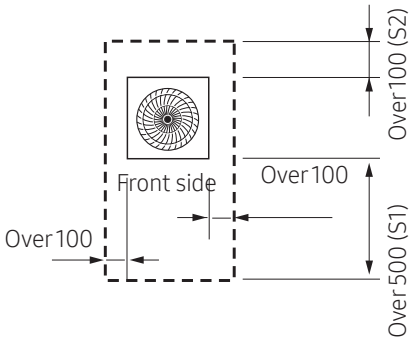
10. Installation

Space requirement for installation

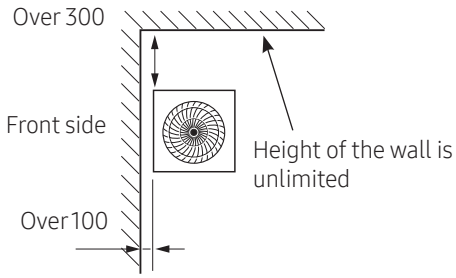
- Space requirement was decided based on following conditions; Cooling mode, outdoor temperature of 35 °C. Larger space is required if the outdoor temperature is higher than 35 °C or if the place is heated easily by quantity of solar radiation.
- When you secure installation space, consider path for 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 of space between the product, but product's performance may decrease depending on the installation environment.

Single installation

(Unit : mm)



<Case 1>

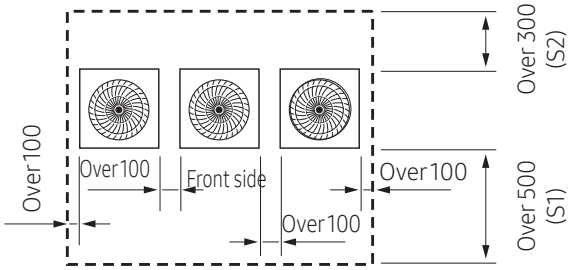


<Case 2>

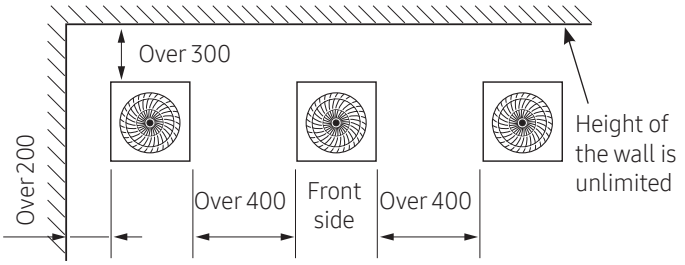
10. Installation

Space requirement for installation

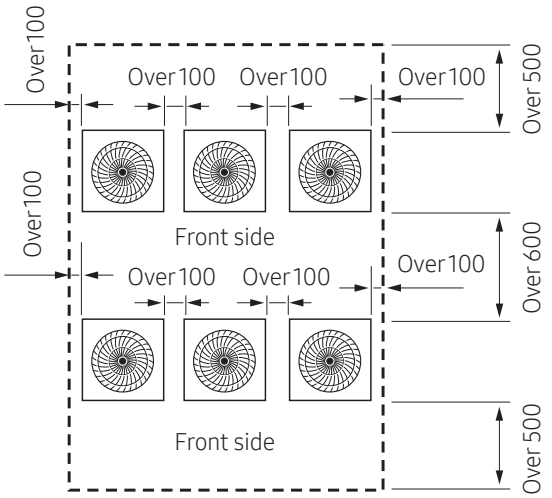
Module installation



<Case 1>



<Case 2>



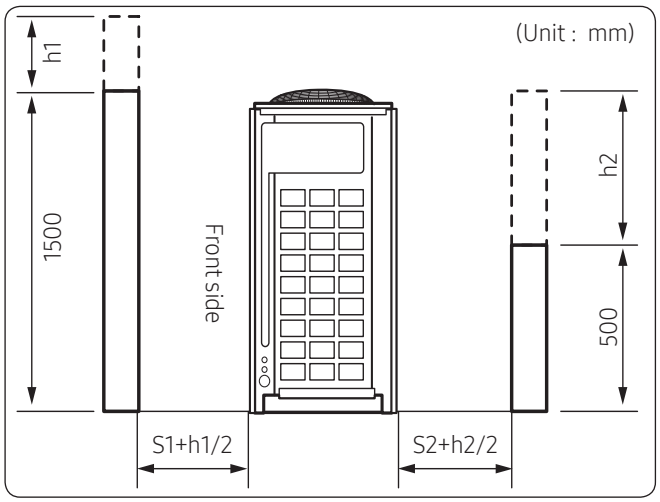
<Case 3>

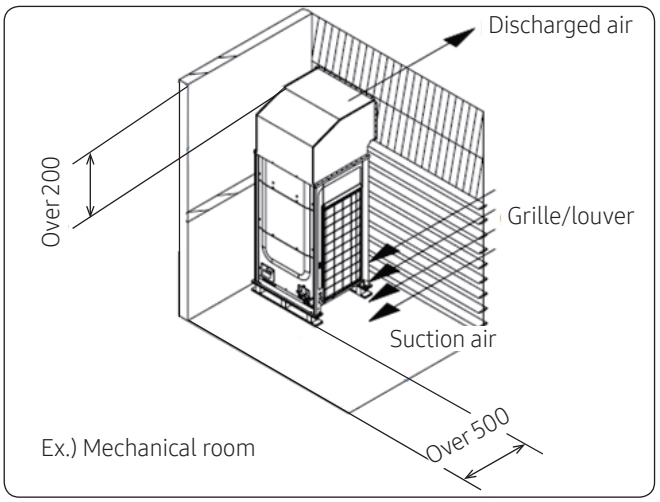
✳ For <Case 1> or <Case 3>

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

✳ At Machinery Room

- Make sure to install both discharge duct and suction grille / louver
- Static pressure of the discharge duct should be within the standard specification (78.45Pa) when installing the duct.
- Secure enough cross-sectional area on grille surface for easy air intake in case of machinery room installation.





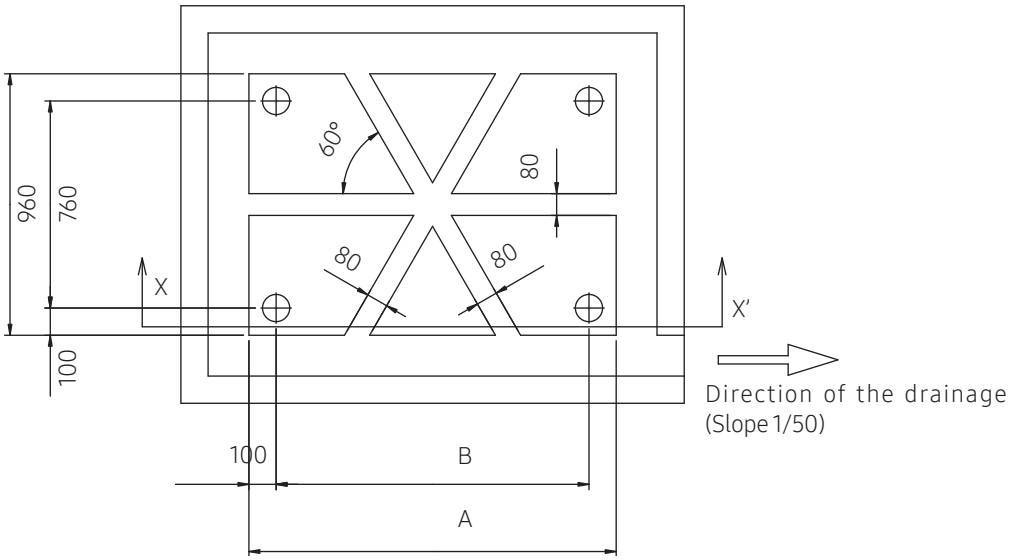
10. Installation

Base construction and installation of the outdoor unit

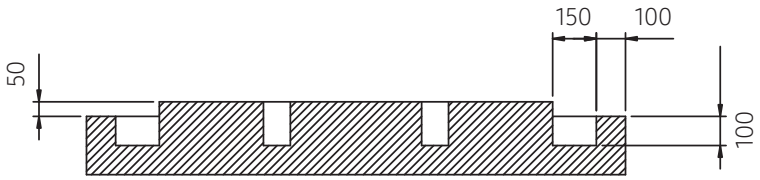
Examples of draining work

- ▶ 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.

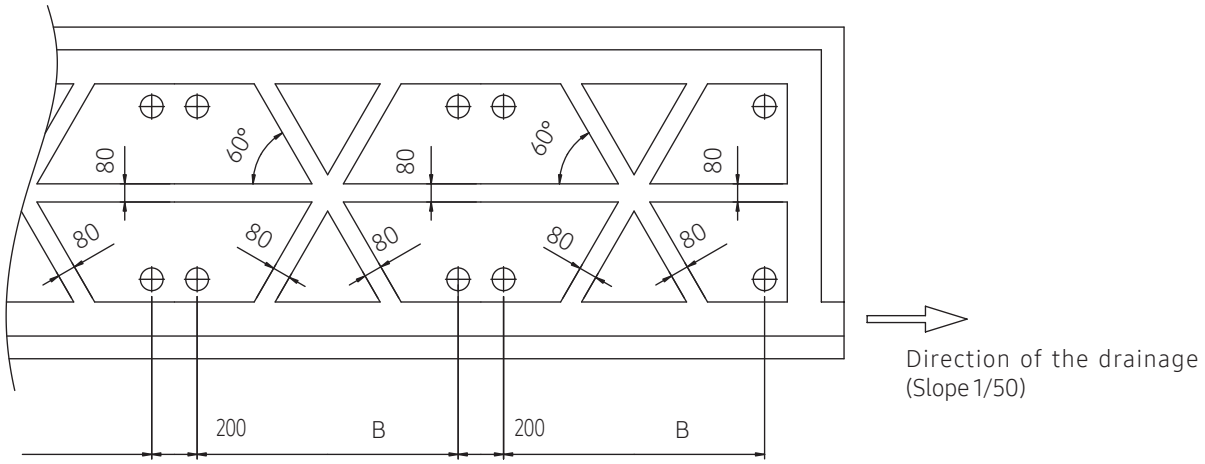
(Unit : mm)



<Drainage work for single installation>



<X-X' SECTION>



<Drainage work for module installation>

10. Installation

Base construction and installation of the outdoor unit

(Unit : mm)

Classification	DVM S Small Type	DVM S Large A Type	DVM S Large B type
A	940	1,350	1,350
B	740	1,150	1,150

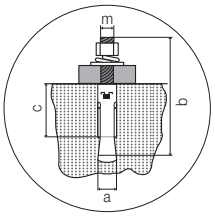
CAUTION

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	14 mm	75 mm	40 mm	50 mm	30 N·m



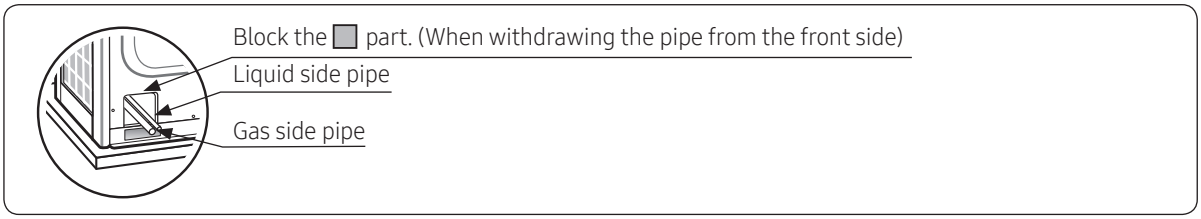
※ Use the anchor bolts and nuts that is zinc plated or made of STS material. Regular anchor bolts or nuts may get damaged by corrosion.

Cautions regarding on connecting the pipe

▶ If you install the outdoor unit on the rooftop, check the strength and make sure to waterproof the rooftop.

▶ Construct draining pit around the base construction and pay attention to the drainage around the outdoor unit. (Condensation or defrost water may form during outdoor unit operation.)

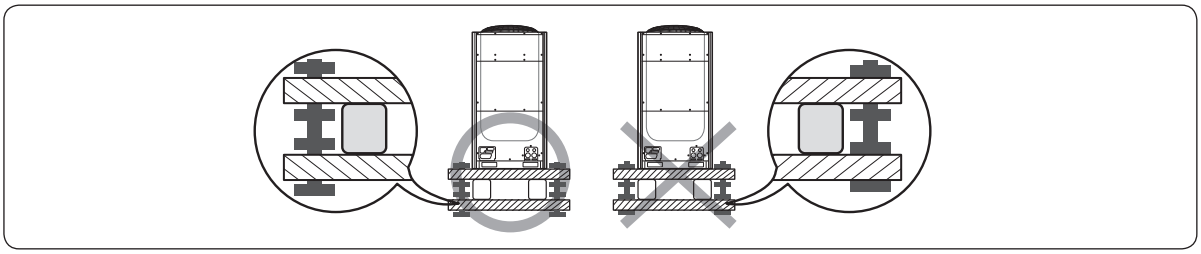
▶ If there's any possibility of small animals from entering the pipe outlet, block the outlet as shown in the illustration.



Cautions regarding on anti-vibration frame installation

▶ During installation, make sure there is no gap between the base ground and the supporting structures such as anti-vibration frame or H beam.

▶ Base ground must be constructed strongly to support the bottom part of the anti-vibration mount.



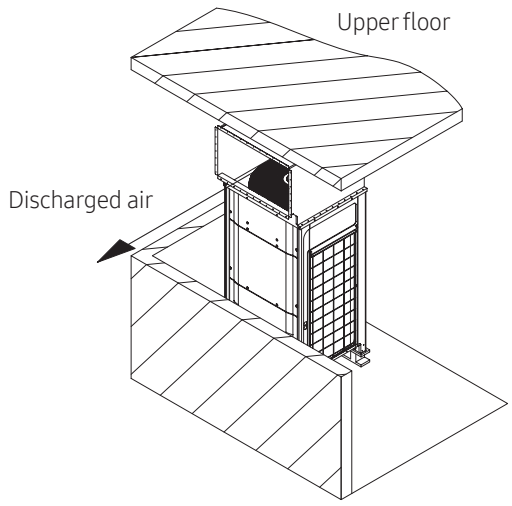
▶ After installing the anti-vibration frame, untighten the fixing part on the top and bottom part of the frame.

10. Installation

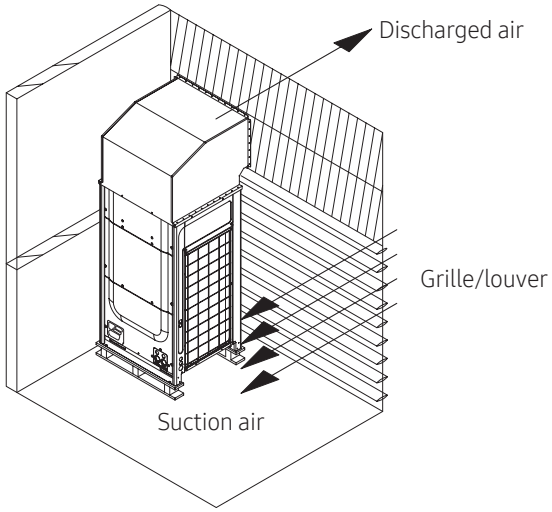
Wind/snow prevention duct

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 between the air outlet and a nearby obstacle.



Ex.) Balcony



Ex.) Mechanical room

Installing the outdoor unit in cold region

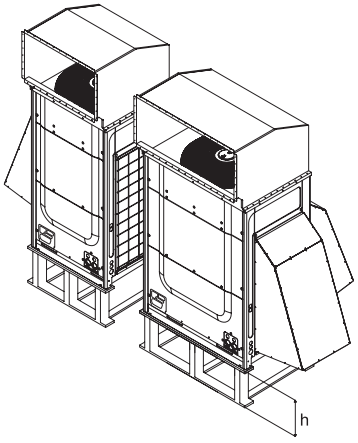
▶ In cold regions with lots of snowfall, install a snow prevention duct, as a sufficient countermeasure, to prevent snow from accumulating on the outdoor unit. When the snow prevention duct is not installed, frost may accumulate on the heat exchanger and heating operation may not work normally.

▶ 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.



10. Installation

Wind/snow prevention duct

Installing the outdoor unit in windy region

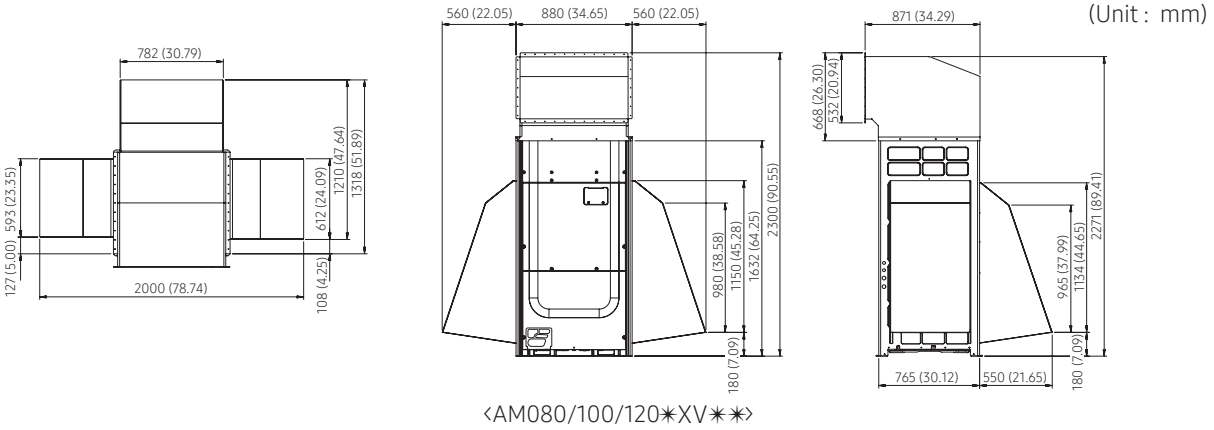
- ▶ In windy regions such as near sea shores, protection wall or wind protection duct must be installed for normal operation of the outdoor unit. (Refer to the illustration of the snow prevention duct, for installing the wind protection duct.)
- ▶ Install the wind prevention duct with the consideration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

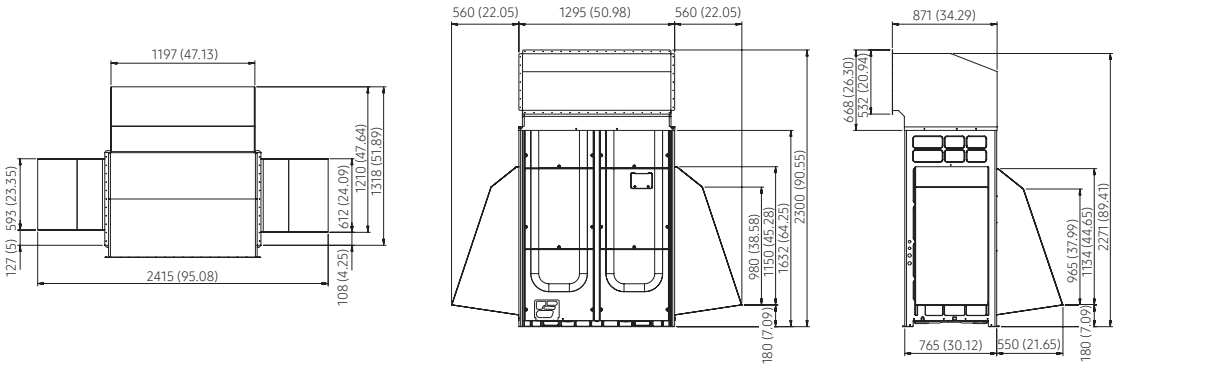
Cautions regarding on installing the frame and selecting the base ground

- 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.

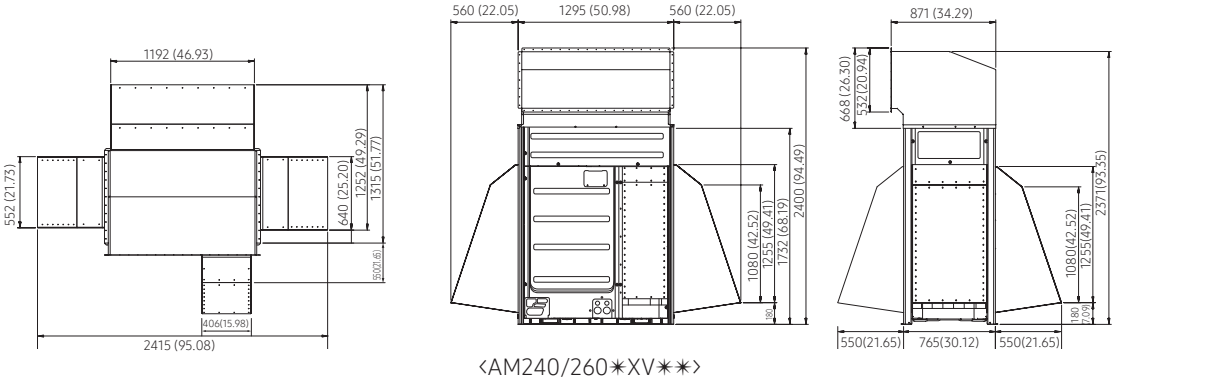
(Unit : mm)



‹AM080/100/120✶XV✶✶›



‹AM140/160/180/200/220✶XV✶✶›



‹AM240/260✶XV✶✶›

10. Installation

Refrigerant pipe installation

Refrigerant pipe work

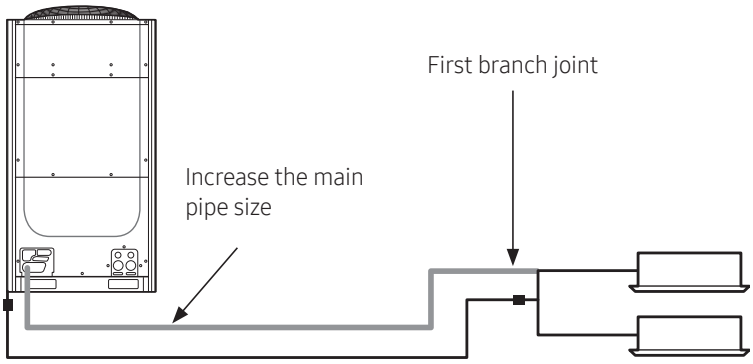
- ▶ The length of refrigerant pipe should be as short as possible and the height difference between an indoor and outdoor unit should be minimized.
- ▶ Piping work must be done within allowable piping length, height difference, and the allowable length after branching.
- ▶ The pressure of the R-410A 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.

<table>
<tr><th>Tool</th><th colspan="2">Installation process/purpose</th><th>Compatibility with conventional tool</th></tr>
<tr><td>Pipe cutter</td><td rowspan="5">Refrigerant pipe installation</td><td>Pipe cutting</td><td rowspan="2">Compatible</td></tr>
<tr><td>Flaring tool</td><td>Pipe flaring</td></tr>
<tr><td>Refrigerant machine oil</td><td>Apply refrigerant oil on flared part</td><td>Exclusive ether oil, ester oil, alkali benzene oil or synthetic oil</td></tr>
<tr><td>Torque wrench</td><td>Connect flare nut with pipe</td><td rowspan="4">Compatible</td></tr>
<tr><td>Pipe bender</td><td>Pipe bending</td></tr>
<tr><td>Nitrogen gas</td><td rowspan="2">Air tightness test</td><td>Prevent oxidation within the pipe</td></tr>
<tr><td>Welder</td><td>Pipe welding</td></tr>
<tr><td>Manifold gage</td><td rowspan="2">Air tightness test ~ additional refrigerant charging</td><td rowspan="2">Vacuuming, charging refrigerant and checking operation</td><td>Need exclusive one to prevent mixture of R-22 refrigerant oil use and also the measurement is not available due to high pressure</td></tr>
<tr><td>Refrigerant charging hose</td><td>Need exclusive one since there is risk of refrigerant leakage or inflow of impurities</td></tr>
<tr><td>Vacuum pump</td><td colspan="2">Pipe drying</td><td>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).</td></tr>
<tr><td>Scale for refrigerant charging</td><td colspan="2">Refrigerant charging</td><td>Compatible</td></tr>
<tr><td>Gas leak detector</td><td colspan="2">Gas leak test</td><td>Need exclusive one
(Ones used for R-134a is compatible)</td></tr>
<tr><td>Flare nut</td><td colspan="3">Must use the flare nut equipped with the product. Refrigerant leakage may occur when the conventional flare nut for R-22 is used.</td></tr>
</table>

10. Installation

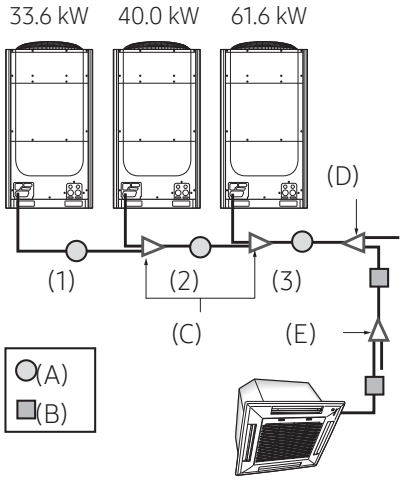
Refrigerant pipe installation

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, you must increase the size of the pipe (main pipe) by one grade which connects between the outdoor unit to the first branch joint.
- ▶ For H/R model, When the pipe length (including elbow) between an outdoor unit and the farthest indoor unit exceeds 90m, you must increase the size of the liquid pipe by one grade among the pipes(main pipe) which connects between the outdoor unit to the first branch joint.

H/P



Ex.) 135.2 kW

Capacity (kW)	No.	Pipe size (mm)	
		Liquid pipe	Gas pipe
33.6 kW	(1)	Ø12.70	Ø 28.58
73.6 kW	(2)	Ø19.05	Ø 34.92
135.2 kW	(3)	Ø19.05	Ø 41.28

10. Installation

Refrigerant pipe installation

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

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

<table>
<tr><th rowspan="2">Outdoor unit capacity (kW) (Cooling)</th><th colspan="2">*Maximum pipe length within 90m</th><th colspan="2">*Maximum pipe length over 90m</th></tr>
<tr><th>Liquid pipe (mm)</th><th>gas pipe (mm)</th><th>Liquid pipe (mm)</th><th>gas pipe (mm)</th></tr>
<tr><td>22.4 kW</td><td rowspan="2">Ø 9.52</td><td>Ø 19.05</td><td rowspan="2">Ø 12.70</td><td>Ø 22.22</td></tr>
<tr><td>22.5 kW ~ 28.1 kW</td><td>Ø 22.22</td><td>Ø 25.40 note1)</td></tr>
<tr><td>28.2 kW ~ 33.6 kW</td><td rowspan="3">Ø 12.70</td><td rowspan="6">Ø 28.58</td><td rowspan="3">Ø 15.88</td><td rowspan="2">Ø 28.58</td></tr>
<tr><td>33.7 kW ~ 40.0 kW</td></tr>
<tr><td>40.1 kW ~ 45.0 kW</td><td rowspan="6">Ø 31.75 note2)</td></tr>
<tr><td>45.1 kW ~ 50.4 kW</td><td rowspan="5">Ø 15.88</td><td rowspan="5">Ø 19.05</td></tr>
<tr><td>50.5 kW ~ 56.0 kW</td></tr>
<tr><td>56.1 kW ~ 63.3 kW</td></tr>
<tr><td>63.4 kW ~ 70.3 kW</td><td rowspan="2">Ø 34.92</td><td rowspan="2">Ø 38.10 note3)</td></tr>
<tr><td>70.4 kW ~ 98.4 kW</td><td rowspan="3">Ø 19.05</td><td rowspan="3">Ø 22.22</td></tr>
<tr><td>98.5 kW ~ 135.2 kW</td><td rowspan="2">Ø 41.28</td><td>Ø 41.28</td></tr>
<tr><td>135.3 kW ~ 169.0 kW</td><td rowspan="2">Ø 53.98</td></tr>
<tr><td>169.1 kW ~ 252.0 kW</td><td>Ø 22.22</td><td>Ø 53.98</td><td>Ø 25.40 note1)</td></tr>
</table>

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

Note1) If Ø 25.40 pipe is not available on site, use Ø 28.58 pipe.

Note2) If Ø 31.75 pipe is not available on site, use Ø 34.92 pipe.

Note3) If Ø 38.10 pipe is not available on site, use Ø 41.28 pipe

10. Installation

Refrigerant pipe installation

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).

<table>
<tr><th rowspan="2">Indoor unit capacity (kW)</th><th colspan="2">Branch pipe length within 45m</th><th colspan="2">Branch pipe length between 45~90m</th></tr>
<tr><th>Liquid pipe (mm)</th><th>Gas pipe (mm)</th><th>Liquid pipe (mm)</th><th>Gas pipe (mm)</th></tr>
<tr><td>15.0 kW and below</td><td rowspan="3">Ø 9.52</td><td>Ø 15.88</td><td rowspan="3">Ø 12.70</td><td>Ø 19.05</td></tr>
<tr><td>15.1 kW ~ 22.4 kW</td><td>Ø 19.05</td><td>Ø 22.22</td></tr>
<tr><td>22.5 kW ~ 28.1 kW</td><td>Ø 22.22</td><td>Ø 25.40 note1)</td></tr>
<tr><td>28.2 kW ~ 40.0 kW</td><td rowspan="2">Ø 12.70</td><td rowspan="3">Ø 28.58</td><td rowspan="2">Ø 15.88</td><td>Ø 28.58</td></tr>
<tr><td>40.1 kW ~ 45.0 kW</td><td rowspan="2">Ø 31.75 note2)</td></tr>
<tr><td>45.1 kW ~ 63.3 kW</td><td rowspan="2">Ø 15.88</td><td rowspan="2">Ø 19.05</td></tr>
<tr><td>63.4 kW ~ 70.3 kW</td><td rowspan="2">Ø 34.92</td><td rowspan="2">Ø 38.10 note3)</td></tr>
<tr><td>70.4 kW ~ 98.4 kW</td><td rowspan="3">Ø 19.05</td><td rowspan="3">Ø 22.22</td></tr>
<tr><td>98.5 kW ~ 135.2 kW</td><td rowspan="2">Ø 41.28</td><td>Ø 41.28</td></tr>
<tr><td>135.3 kW ~ 169.0 kW</td><td rowspan="2">Ø 53.98</td></tr>
<tr><td>Over 169.0 kW</td><td>Ø 22.22</td><td>Ø 53.98</td><td>Ø 25.40 note1)</td></tr>
</table>

Note1) If Ø 25.40 pipe is not available on site, use Ø 28.58 pipe.

Note2) If Ø 31.75 pipe is not available on site, use Ø 34.92 pipe.

Note3) If Ø 38.10 pipe is not available on site, use Ø 41.28 pipe

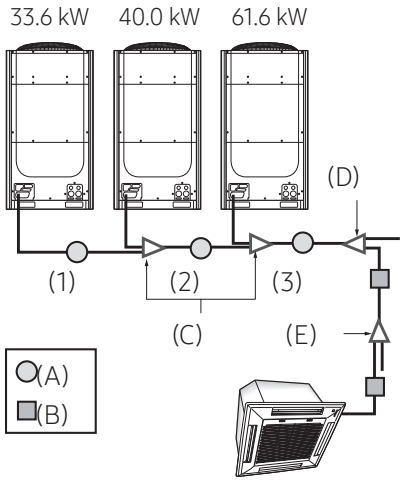
Size of the pipe between the branch joint and the indoor unit

Make a selection according to outdoor unit capacity.

Indoor unit capacity (kW)	Pipe size (O.D. mm)	
	Liquid pipe	Gas pipe
6.0 kW and below	Ø 6.35	Ø 12.70
6.1 kW ~ 16.0 kW	Ø 9.52	Ø 15.88
16.1 kW ~ 23.0 kW	Ø 9.52	Ø 19.05
Over 23.0 kW	Ø 9.52	Ø 22.22

10. Installation

Refrigerant pipe installation



Branch joint

▶ Branch joint between outdoor units (C)

Classification	Model name	Specification (kW)
Y-joint for outdoor unit (C)	MXJ-TA3419M	135.2 kW and below
	MXJ-TA4122M	Over 135.2 kW

▶ First branch joint (D)

Make a selection according to outdoor unit capacity.

Classification	Outdoor unit capacity (kW)	Model name of the branch joint
Y-joint (D)	40.0 kW and below	MXJ-YA2512M
	40.1 kW ~ 45.0 kW	MXJ-YA2812M
	45.1 kW ~ 67.2 kW	MXJ-YA2815M
	67.3 kW ~ 95.2 kW	MXJ-YA3419M
	95.3 kW ~ 135.2 kW	MXJ-YA4119M
	Over 135.2 kW	MXJ-YA4422M

10. Installation

Refrigerant pipe installation

▶ 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 size of the pipe between branch joints (E) is bigger than the size of the pipe connected to the outdoor unit (D), apply the pipe size (D).

1) Y-joint

Classification	Model name	Specification (kW)
Y-joint (E)	MXJ-YA1509M	15.0 kW and below
	MXJ-YA2512M	15.1 kW ~ 40.0 kW
	MXJ-YA2812M	40.1 kW ~ 45.0 kW
	MXJ-YA2815M	45.1 kW ~ 70.3 kW
	MXJ-YA3419M	70.4 kW ~ 98.4 kW
	MXJ-YA4119M	98.5 kW ~ 135.2 kW
	MXJ-YA4422M	Over 135.2 kW

2) Distribution header

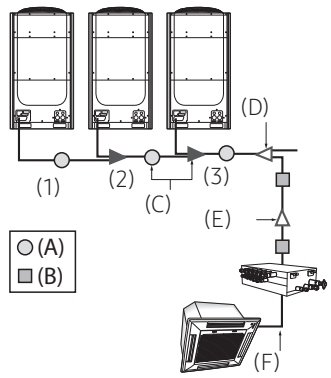
Classification	Model name	Specification (kW)
Distribution header (E)	MXJ-HA2512M	45.0 kW and below (for 4 rooms)
	MXJ-HA3115M	70.3 kW and below (for 8 rooms)
	MXJ-HA3819M	70.4 kW ~ 135.2 kW (for 8 rooms)

10. Installation

Refrigerant pipe installation

H/R

33.6 kW 40.0 kW 61.6 kW



Ex.) 135.2 kW

Capacity (kW)	No.	Pipe size (mm)		
		Liquid pipe	Low pressure gas pipe	High pressure gas pipe
33.6 kW	(1)	Ø 12.70	Ø 28.58	Ø 19.05
73.6 kW	(2)	Ø 19.05	Ø 34.92	Ø 28.58
135.2 kW	(3)	Ø 19.05	Ø 41.28	Ø 34.92

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

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

Outdoor unit capacity (kW) (Cooling)	*Maximum pipe length within 90m			*Maximum pipe length over 90m		
	Liquid pipe (mm)	Low pressure gas pipe (mm)	High pressure gas pipe (mm)	Liquid pipe (mm)	Low pressure gas pipe (mm)	High pressure gas pipe (mm)
22.4 kW	Ø 9.52	Ø 19.05	Ø 15.88	Ø 12.70	Ø 19.05	Ø 15.88
22.5 kW ~ 28.1 kW		Ø 22.22	Ø 19.05		Ø 22.22	Ø 19.05
28.2 kW ~ 33.6 kW	Ø 12.70	Ø 28.58		Ø 15.88	Ø 28.58	
33.7 kW ~ 40.0 kW			Ø 22.22			Ø 22.22
40.1 kW ~ 45.0 kW						
45.1 kW ~ 50.4 kW	Ø 15.88			Ø 19.05		
50.5 kW ~ 56.0 kW			Ø 28.58			Ø 28.58
56.1 kW ~ 63.3 kW						
63.4 kW ~ 70.3 kW		Ø 34.92			Ø 34.92	
70.4 kW ~ 98.4 kW	Ø 19.05			Ø 22.22		
98.5 kW ~ 135.2 kW		Ø 41.28	Ø 34.92		Ø 41.28	Ø 34.92
135.3 kW ~ 169.0 kW						
169.1 kW ~ 252.0 kW	Ø 22.22	Ø 53.98	Ø 53.98	Ø 25.40 note1)	Ø 53.98	Ø 53.98

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

Note1) If Ø 25.40 pipe is not available on site, use Ø 28.58 pipe.

❊ For HR model, only increase the size of the liquid pipe If pipe length exceeds 90m

❊ 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.

10. Installation

Refrigerant pipe installation

H/R

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).

<table>
<tr><th rowspan="2">Outdoor unit capacity (kW) (Cooling)</th><th colspan="3">Pipe size (mm)</th></tr>
<tr><th>Liquid pipe</th><th>Low pressure gas pipe</th><th>High pressure gas pipe</th></tr>
<tr><td>15.0 kW and below</td><td rowspan="3">Ø 9.52</td><td>Ø 15.88</td><td rowspan="2">Ø 15.88</td></tr>
<tr><td>15.1 kW ~ 22.4 kW</td><td>Ø 19.05</td></tr>
<tr><td>22.5 kW ~ 28.1 kW</td><td>Ø 22.22</td><td rowspan="2">Ø 19.05</td></tr>
<tr><td>28.2 kW ~ 33.6 kW</td><td rowspan="2">Ø 12.70</td><td rowspan="3">Ø 28.58</td></tr>
<tr><td>33.7 kW ~ 45.0 kW</td><td>Ø 22.22</td></tr>
<tr><td>45.1 kW ~ 50.4 kW</td><td rowspan="3">Ø 15.88</td><td rowspan="3">Ø 28.58</td></tr>
<tr><td>50.5 kW ~ 63.3 kW</td></tr>
<tr><td>63.4 kW ~ 70.3 kW</td><td rowspan="2">Ø 34.92</td></tr>
<tr><td>70.4 kW ~ 98.4 kW</td><td rowspan="3">Ø 19.05</td></tr>
<tr><td>98.5 kW ~ 135.2 kW</td><td rowspan="2">Ø 41.28</td><td>Ø 34.92</td></tr>
<tr><td>135.3 kW ~ 169.0 kW</td><td rowspan="2">Ø 41.28</td></tr>
<tr><td>Over 169.0 kW</td><td>Ø 22.22</td><td>Ø 53.98</td></tr>
</table>

Size of the pipe between the branch joint and the indoor unit

Make a selection according to outdoor unit capacity.

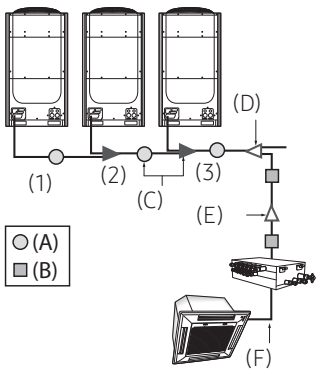
<table>
<tr><th rowspan="2">Indoor unit capacity (kW)</th><th colspan="2">Pipe size (O.D. mm)</th></tr>
<tr><th>Liquid pipe</th><th>Gas pipe</th></tr>
<tr><td>6.0 kW and below</td><td>Ø 6.35</td><td>Ø 12.70</td></tr>
<tr><td>6.1 kW ~ 16.0 kW</td><td>Ø 9.52</td><td>Ø 15.88</td></tr>
<tr><td>16.1 kW ~ 23.0 kW</td><td>Ø 9.52</td><td>Ø 19.05</td></tr>
<tr><td>Over 23.0 kW</td><td>Ø 9.52</td><td>Ø 22.22</td></tr>
</table>

10. Installation

Refrigerant pipe installation

H/R

33.6 kW 39.2 kW 44.8 kW



Branch joint

▶ Branch joint between outdoor units (C)

Classification	Model name	Specification (kW)
Liquid/Low pressure Y-joint (C)	MXJ-TA3419M	135.2 kW and below
	MXJ-TA4122M	Over 135.2 kW
High pressure Y-joint (C)	MXJ-TA3100M	135.2 kW and below
	MXJ-TA3800M	Over 135.2 kW

▶ First branch joint (D)

Make a selection according to outdoor unit capacity.

Classification	Outdoor unit capacity (kW)	Model name of the branch joint
Liquid/Low pressure Y-joint (D)	40.0 kW and below	MXJ-YA2512M
	40.1 kW ~ 45.0 kW	MXJ-YA2812M
	45.1 kW ~ 67.2 kW	MXJ-YA2815M
	67.3 kW ~ 95.2 kW	MXJ-YA3419M
	95.3 kW ~ 135.2 kW	MXJ-YA4119M
	Over 135.2 kW	MXJ-YA4422M
High pressure Y-joint (D)	22.4 kW	MXJ-YA1500M
	22.5 kW ~ 67.2 kW	MXJ-YA2500M
	67.3 kW ~ 135.2 kW	MXJ-YA3100M
	Over 135.2 kW	MXJ-YA3800M

▶ 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 size of the pipe between branch joints (E) is bigger than the size of the pipe connected to the outdoor unit (D), apply the pipe size (D).

• Y-joint

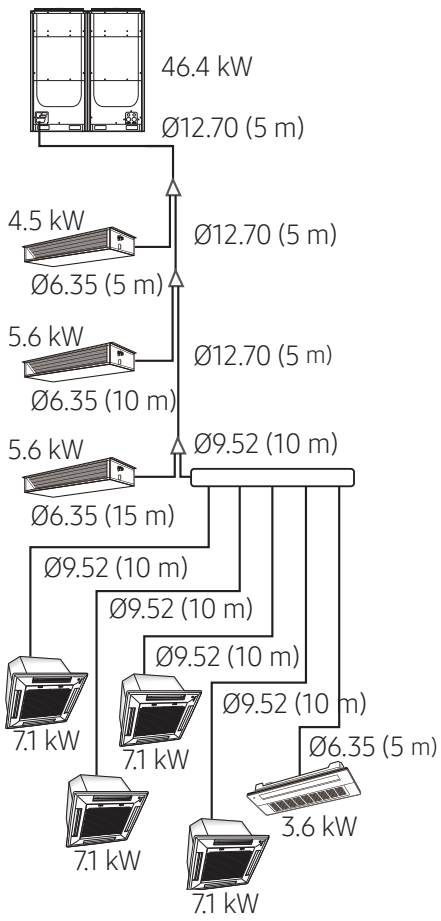
Classification	Model name	Specification (kW)
Y-joint (E)	MXJ-YA1509M	15.0 kW and below
	MXJ-YA2512M	15.1 kW ~ 40.0 kW
	MXJ-YA2812M	40.1 kW ~ 45.0 kW
	MXJ-YA2815M	45.1 kW ~ 70.3 kW
	MXJ-YA3419M	70.4 kW ~ 98.4 kW
	MXJ-YA4119M	98.5 kW ~ 135.2 kW
	MXJ-YA4422M	Over 135.2 kW
Y-joint (E) (Only H/R)	MXJ-YA1500M	22.4 kW and below
	MXJ-YA2500M	22.5 kW ~ 70.3 kW
	MXJ-YA3100M	70.4 kW ~ 135.2 kW
	MXJ-YA3800M	Over 135.2 kW

10. Installation

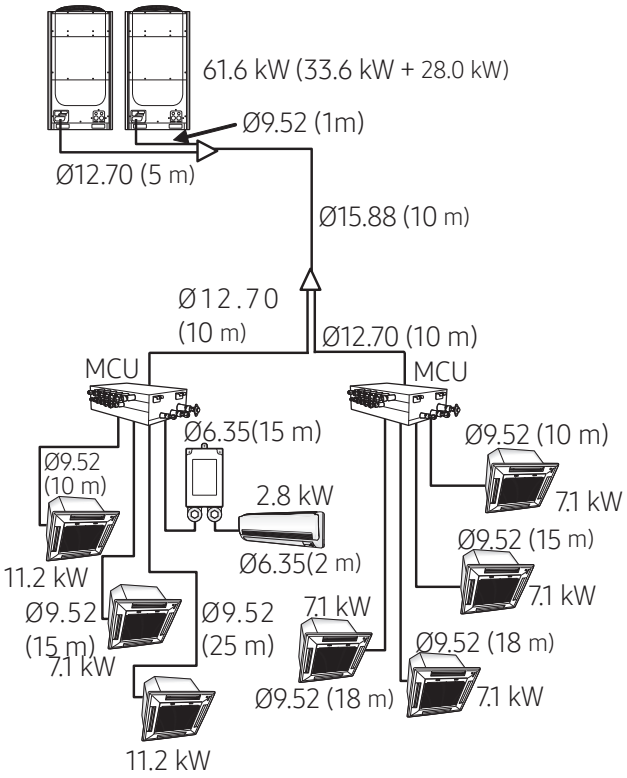
Refrigerant pipe installation

Additional refrigerant

H/P



H/R



10. Installation

Refrigerant pipe installation

Refrigerant pipe installation

▶ Basic amount of refrigerant within the outdoor unit (kg)

- Amount of additional refrigerant has to be calculated based on the sum of all liquid pipe length.

Classification	AM080JXVHGH/ET	AM100JXVHGH/ET	AM120JXVHGH/ET	AM140JXVHGH/ET	AM160JXVHGH/ET	AM180JXVHGH/ET
Basic amount	6.5	6.5	6.5	9.4	9.4	8.4
Classification	AM200JXVHGH/ET	AM220JXVHGH/ET	AM240KXVGGH/ET	AM260KXVGGH/ET		
Basic amount	11	11	14	14		
Classification	AM080JXVAGH/ET	AM100JXVAGH/ET	AM120JXVAGH/ET	AM140KXVAGH/ET	AM160KXVAGH/ET	AM180KXVAGH/ET
Basic amount	5.5	5.5	6.5	7.7	8.4	8.4
Classification	AM200KXVAGH/ET	AM220KXVAGH/ET	AM240KXVAGH/ET	AM260KXVAGH/ET		
Basic amount	8.4	8.4	14	14		
Classification	AM100MXVDGH/ET	AM120MXVDGH/ET	AM140MXVDGH/ET	AM160MXVDGH/ET	AM180MXVDGH/ET	
Basic amount	5.5	6.5	7.7	8.4	8.4	
Classification	AM080JXVHGR/ET	AM100JXVHGR/ET	AM120JXVHGR/ET	AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET
Basic amount	6.5	6.5	6.5	9.4	9.4	8.4
Classification	AM200JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET	AM260MXVGNR/ET		
Basic amount	11	11	14	14		

▶ 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	Ø 6.35	Ø 9.52	Ø 12.70	Ø 15.88	Ø 19.05	Ø 22.22	Ø 25.40	Ø 28.58
Additional amount (kg/m)	0.02	0.06	0.125	0.18	0.27	0.35	0.53	0.65

- For the indoor unit already connected to EEV kit, the additional refrigerant charging is 0.01kg per meter regardless of the pipe size.

10. Installation

Refrigerant pipe installation

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

(Unit : kg)

Model \ Capacity(kW)	1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.6	6	7.1	8.2	9	9.3	11.2	12.8	14	16	18	22	22.4	28	32	50	500 CMH	1000 CMH
Slim 1way cassette (JSF) (AM✻✻✻FN1DE✻✻) (AM✻✻✻JN1DE✻✻)			0.25	0.25		0.25		0.32		0.32															
Interior 1way cassette (AM✻✻✻HN1DE✻✻)		0.15	0.15																						
2way cassette (AM✻✻✻FN2DE✻✻)								0.31		0.47															
4Way Casette S (AM✻✻✻FN4DE✻✻)							0.45	0.45		0.45		0.45		0.57	0.69	0.69									
360 Casette (AM✻✻✻KN4DE✻✻)							0.45	0.45		0.45		0.45		0.69	0.69	0.69									
Floor Standing Unit (AM✻✻✻✻NFDE✻✻)						0.22		0.32		0.32															
ERV plus (AM✻✻✻FNKDE✻✻)																								0.11	0.36
4way cassette S (600 x 600) (AM✻✻✻FNNDE✻✻)	0.29		0.29	0.29		0.29	0.37	0.37	0.37																
Duct S (AM✻✻✻HNMPK✻/✻)						0.22	0.22	0.22		0.22		0.31		0.38	0.38	0.38									
Duct S (AM✻✻✻HNMPK✻9✻)					0.31	0.31	0.38	0.38		0.38															
Duct S (AM✻✻✻HNHPK✻/✻)														0.38	0.38	0.38									
Slim duct (AM✻✻✻FNLDE✻✻)		0.17	0.17	0.17		0.26	0.35	0.35		0.45		0.42		0.42	0.62	0.62									
Slim duct (with drain pump) (AM✻✻✻KNLDE✻✻)							0.35	0.35		0.45		0.42		0.42	0.62	0.62									
MSP duct (AM✻✻✻✻NMDE✻✻)			0.24	0.24		0.24	0.28	0.28		0.28		0.32		0.54	0.68	0.68	0.91								
MSP duct (with drain pump) (AM✻✻✻KNMDE✻✻)			0.24	0.24		0.24	0.28	0.28		0.28		0.32		0.54	0.68	0.68	0.91								
Home Duct (AM✻✻✻KNLDEH)		0.13	0.13	0.13		0.17																			
Ceiling (AM✻✻✻FNCDE✻✻ / AM✻✻✻JNCDK✻✻)								0.39		0.39				0.56		0.95									
Console (AM✻✻✻✻NJDE✻✻)			0.16	0.27		0.27	0.27	0.27																	
Neo forte (AM✻✻✻FNTDE✻✻)	0.24		0.24	0.24		0.24		0.36		0.36															
Neo forte (with EEV) (AM✻✻✻FNQDE✻✻)	0.34		0.34	0.34		0.34	0.51	0.51		0.51															
AR5000 (AM✻✻✻JNADK✻✻)	0.16		0.16	0.19		0.25	0.25	0.52		0.52	0.52														
AR5000 (with EEV) (AM✻✻✻JNVDK✻✻)	0.22		0.22	0.25		0.34	0.34	0.71		0.71	0.71														
New Boracay (AM✻✻✻KNTDE✻✻)	0.24		0.24	0.32		0.32	0.49	0.49		0.49															
New Boracay (with EEV) (AM✻✻✻KNQDE✻✻)	0.24		0.24	0.32		0.32	0.49	0.49		0.49															
MAX 4 (with EEV) (AM✻✻✻MNQDE✻✻)													0.49												
HSP duct (AM✻✻✻FNHDE✻✻)														0.68	0.68	0.68			1.18		1.18				
OAP duct (AM✻✻✻JNEPE✻✻)																0.68			1.18		1.18				
Big duct (AM✻✻✻JNHFK✻✻)																		1.15		1.15					
Hydro Unit HE (AM✻✻✻FNBD✻✻)																	0.6					0.7	1.2		
Hydro Unit HT (AM✻✻✻FNBF✻✻)	0.6 note1)																								
MCU (MCU-S✻NE✻✻N)	0.5																								

► If AHU kit is included among the indoor units, you must add 0.063kg of refrigerant for every 1kW of the 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.

10. Installation

Refrigerant pipe installation

▶ Method to calculate total amount of additional refrigerant

- Amount of additional refrigerant depending on the pipe length (ⓐ)
- Amount of additional refrigerant for each indoor unit (ⓑ) = ∑(Amount of additional refrigerant for each connected indoor unit) ❊ Refer to the table
- Total amount of additional refrigerant = ⓐ+ⓑ

❊ Sum of total amount of additional refrigerant and the basic amount of refrigerant should not exceed 100kg. If the refrigerant exceeds 100kg, separate the module so that weight of the refrigerant doesn't exceed 100kg.

Ex.) For AM200FXVAG✳, basic amount of refrigerant is 8.4kg, therefore total amount of additional refrigerant (ⓐ+ⓑ) should not exceed 91.6 kg.

▶ Example of refrigerant calculation for HP models

Classification	Size of liquid pipe	Length (m)	Unit amount of refrigerant (kg/m)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
		①	②	①×②	∑(①×②)
Liquid pipe (ⓐ)	Ø 6.35	35	0.02	0.7	ⓐ 5.575
	Ø 9.52	50	0.06	3.0	
	Ø 12.70	15	0.125	1.875	

Classification	Model name of indoor unit	Number of units	Unit amount of refrigerant (kg/EA)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
		①	②	①×②	∑(①×②)
Indoor unit (ⓑ)	4way cassette (AM071FN4DEH✳)	4	0.45	1.80	ⓑ 3.10
	Slim duct (AM056FNLDEH✳)	2	0.35	0.70	
	Slim duct (AM045FNLDEH✳)	1	0.35	0.35	
	1way cassette (AM036FN1DEH✳)	1	0.25	0.25	

- Total amount of refrigerant (ⓐ+ⓑ) = 5.575+3.10 = 8.675 (kg)

▶ Example of refrigerant calculation for HR models

Classification	Size of liquid pipe	Length (m)	Unit amount of refrigerant (kg/m)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
		①	②	①×②	∑(①×②)
Liquid pipe (ⓐ)	Ø 6.35	15	0.02	0.3	ⓐ 11.965
	Ø 9.52	112	0.06	6.72	
	Ø 12.70	25	0.125	3.125	
	Ø 15.88	10	0.18	1.8	
	Ø 6.35 (EEV Kit ~ indoor unit)	2	0.01	0.02	

10. Installation

Refrigerant pipe installation

Classification	Model name of indoor unit	Number of units	Unit amount of refrigerant (kg/EA)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
		①	②	①×②	∑(①×②)
Indoor unit (ⓑ)	4way cassette (AM071FN4DEH✳)	5	0.45	2.25	ⓑ 4.66
	4way cassette (AM112FN4DEH✳)	2	0.57	1.14	
	Neo forte (AM028FNTDEH✳)	1	0.27	0.27	
	MCU	2	0.5	1	

- Total amount of refrigerant (ⓐ+ⓑ) = 11.965+4.66 = 16.625 (kg)

Temper grade and minimum thickness of the refrigerant pipe

Outer diameter (mm)	Minimum thickness (mm)	Temper grade
Ø 6.35	0.70	Annealed
Ø 9.52	0.70	
Ø 12.70	0.80	
Ø 15.88	1.00	
Ø 19.05	0.90	Drawn
Ø 22.22	0.90	
Ø 25.40	1.00	
Ø 28.58	1.10	
Ø 31.75	1.10	
Ø 34.92	1.21	
Ø 38.10	1.35	
Ø 41.28	1.43	
Ø 44.45	1.60	
Ø 50.80	2.00	
Ø 53.98	2.10	

CAUTION

- For pipes larger than Ø 19.05, drawn type (C1220T-1/2H or C1220T-H) type copper pipe must be used. If a annealed type (C1220T-O) copper pipe is used, pipe may break due to its low pressure resistance and cause personal injury.

10. Installation

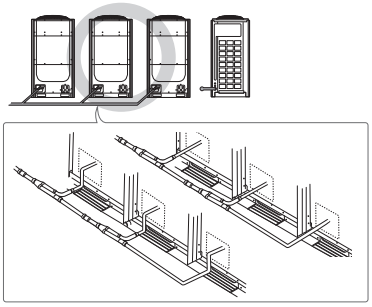
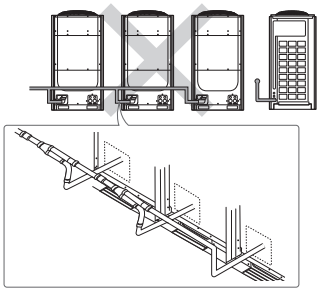
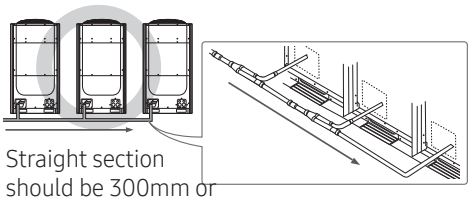
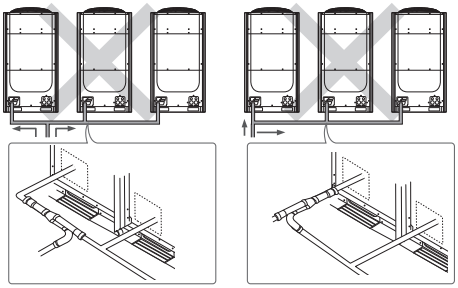
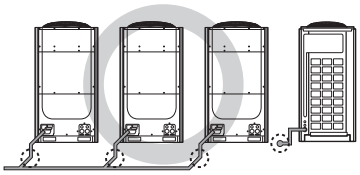
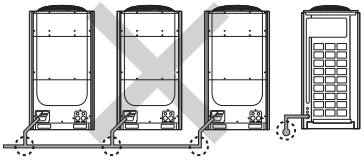
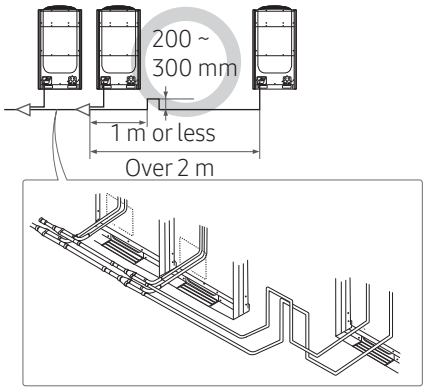
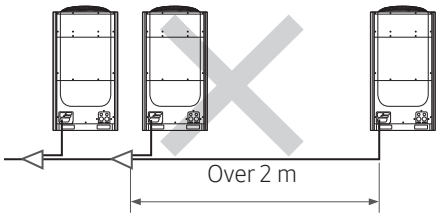
Additional refrigerant

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.		
Branch joint between outdoor units must be installed horizontally.		
When the piping length between outdoor unit and the branch joint exceeds 2m, install a vertical trap as show in the figure.		

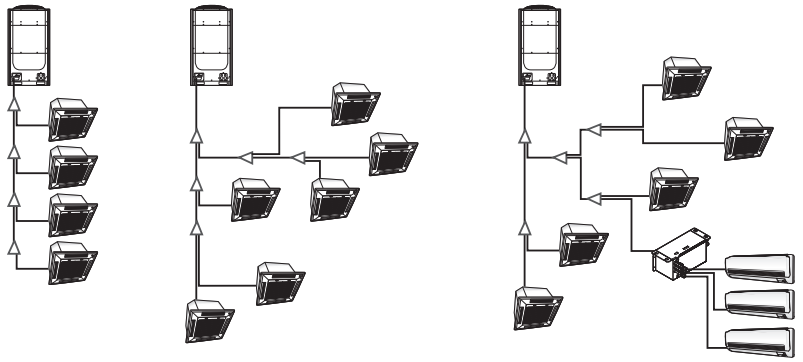
10. Installation

Refrigerant pipe installation

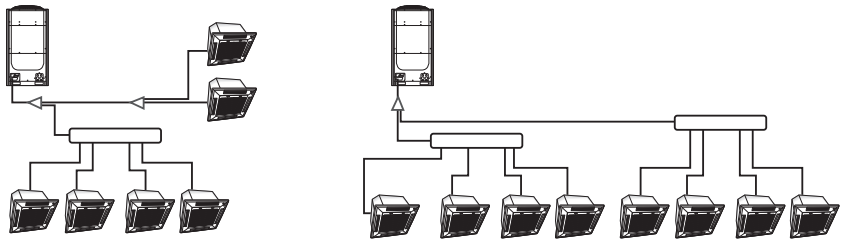
Examples of refrigerant pipe installation

H/P

1. Using Y-joint

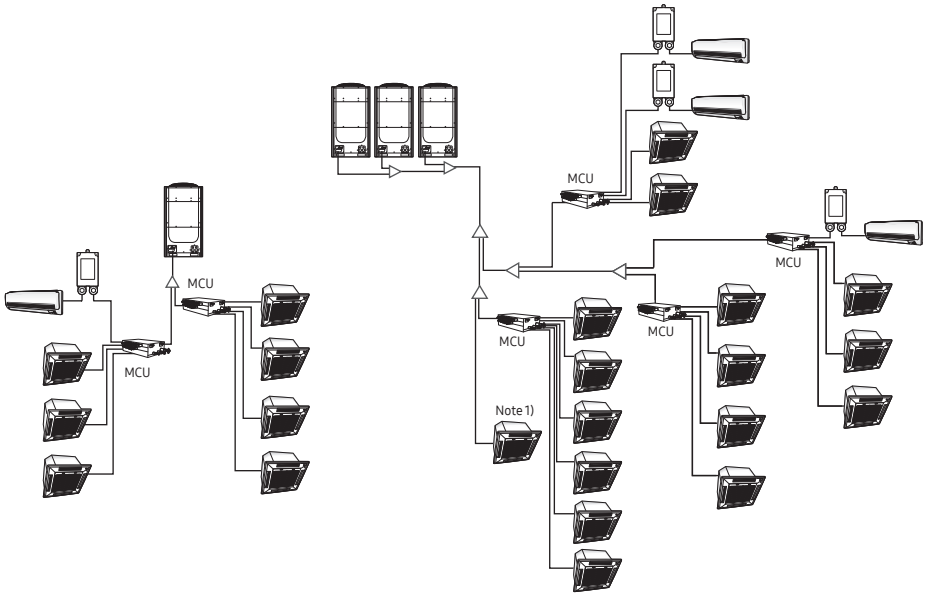


2. Using distribution header



H/R

Using Y-joint



Note 1) Direct-connected indoor unit without MCU (for HR only)

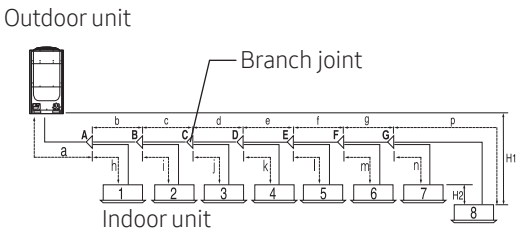
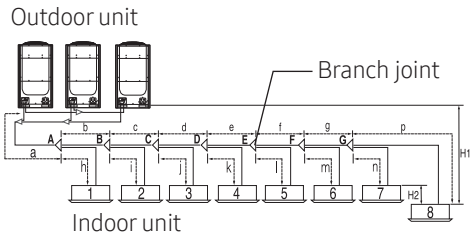
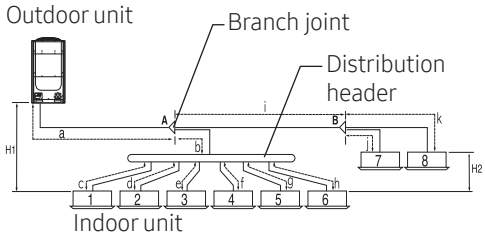
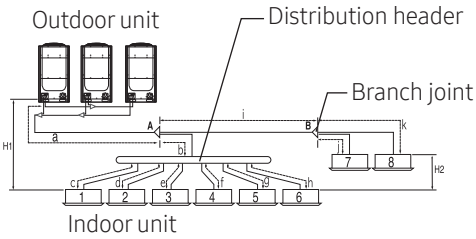
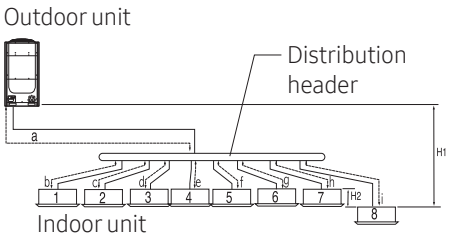
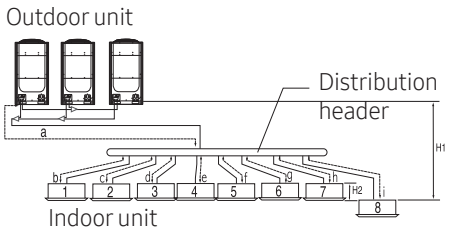
- This indoor unit can only be used for cooling operation. (Heating operation is not possible.)
- Connect indoor unit to liquid and low pressure gas pipe.
- Change the installation option for direct-connected indoor unit without MCU. (refer to the indoor unit installation manual)

10. Installation

Refrigerant pipe installation

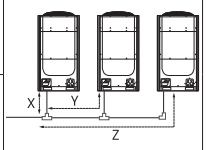
Allowable length of the refrigerant pipe and the installation examples

H/P

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

10. Installation

Refrigerant pipe installation

<table>
<tr><th colspan="5">Classification</th><th colspan="2">Example</th><th>Remarks</th></tr>
<tr><td rowspan="6">Maximum allowable length of pipe</td><td rowspan="4">Outdoor unit ~ Indoor unit</td><td rowspan="3">Actual length (Equivalent length)</td><td rowspan="3">200m and below (220m and below)</td><td>Installing only with Y-joint</td><td>a+b+c+d+e+f+g+p ≤ 200m(220m)</td><td rowspan="3">Equivalent length
Y-joint: 0.5 m,
Distribution header: 1 m</td></tr>
<tr><td>Installing with Y-joint and distribution header</td><td>a+b+h ≤ 200m (220m),
a+i+k ≤ 200m (220m)</td></tr>
<tr><td>Installing only with distribution header</td><td>a+i ≤ 200m (220m)</td></tr>
<tr><td rowspan="3">Total length of pipe (m)</td><td rowspan="3">1,000 m or less</td><td>Installing only with Y-joint</td><td>a+b+c+d+e+f+g+h+i+
j+k+l+m+n+p ≤ 1000m</td><td>-</td></tr>
<tr><td>Installing with Y-joint and distribution header</td><td>a+b+c+d+e+f+g+h+i+j+k
≤ 1000m</td><td>-</td></tr>
<tr><td>Installing only with distribution header</td><td>a+b+c+d+e+f+g+h+i
≤ 1000m</td><td>-</td></tr>
<tr><td rowspan="2">Outdoor unit ~ Outdoor unit (Module installation)</td><td>Pipe length</td><td>10 m or less</td><td colspan="2">x ≤ 10 m, y ≤ 10 m, z ≤ 10 m</td><td rowspan="2">  </td></tr>
<tr><td>Equivalent length</td><td>13 m or less</td><td colspan="2">x ≤ 13 m, y ≤ 13 m, z ≤ 13 m</td></tr>
<tr><td rowspan="3">Maximum allowable height difference of pipe</td><td>Outdoor unit ~ Indoor unit</td><td colspan="2">110/110m Note 2)</td><td colspan="3">H1 ≤ 110/110m</td></tr>
<tr><td rowspan="2">Indoor unit ~ Indoor unit</td><td colspan="2">50m or less</td><td colspan="3">H2 ≤ 50m</td></tr>
<tr><td colspan="6">But, when AM✶✶✶✶NQDEH✶✶✶ / AM✶✶✶JNVDKH✶✶✶ is installed, H2 is 15 m or less.</td></tr>
<tr><td rowspan="4">Maximum allowable length after branch joint</td><td rowspan="4">First branch joint ~ Farthest Indoor unit</td><td rowspan="4">Pipe length</td><td rowspan="3">45 m or less</td><td>Installing only with Y-joint</td><td>b+c+d+e+f+g+p ≤ 45 m</td><td rowspan="3">-</td></tr>
<tr><td>Installing with Y-joint and distribution header</td><td>i+k ≤ 45 m</td></tr>
<tr><td>Installing only with distribution header</td><td>i ≤ 45 m</td></tr>
<tr><td>45 m~ 90 m Note 1)</td><td colspan="2">Required conditions must be satisfied</td><td>-</td></tr>
</table>

10. Installation

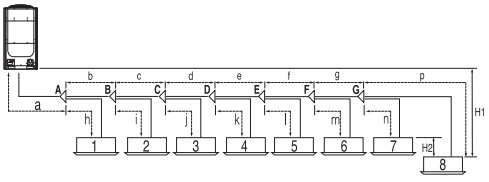
Refrigerant pipe installation

Electrical wiring work

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

❊ Please refer to the EEV Kit manual.

Note 1) Required condition

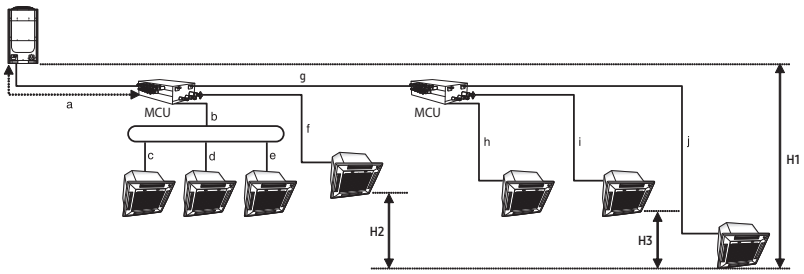
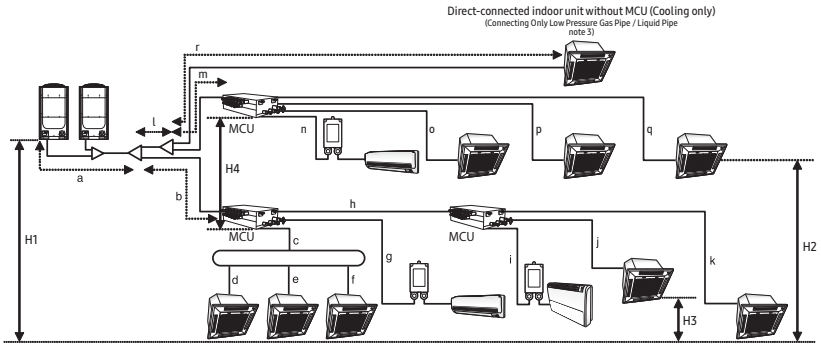
Classification	Condition	Example
First branch joint ~ Farthest Indoor unit	45m ≤ b+c+d+e+f+g+p ≤ 90m: branch pipes (b, c, d, e, f, g) size must be increased by 1 grade	
Total length of extended pipe	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is not increased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

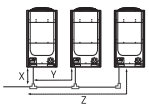
Note 2) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m, (If the height difference is over 40m, contact your local dealer for more information.)
but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 110m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

10. Installation

Refrigerant pipe installation

H/R

Classification	Installation with Y-joint
Installing with MCU only	
Installing with MCU and Y-joint	

Classification				Example		Remarks
Maximum allowable pipe length	Outdoor unit ~ Indoor unit	Actual pipe length (Equivalent length)	200 m or less (220 m or less)	Installing only with MCU	a+g+j ≤ 200 m (220 m)	Equivalent length Y-joint: 0.5 m Distribution header: 1 m MCU: 1 m
				Installing with MCU and Y-joint	a+b+h+k ≤ 200 m (220 m)	
		Total length of pipe	1000 m or less	Installing only with MCU	a+b+c+d+e+f+g+h+i+j ≤ 1000 m	
				Installing with MCU and Y-joint	a+b+c+...+r ≤ 1000 m	
	Outdoor unit ~ Indoor unit	Pipe length	10 m or less	x ≤ 10 m, y ≤ 10 m, z ≤ 10 m		
		Equivalent length	13 m or less	x ≤ 13 m, y ≤ 13 m, z ≤ 13 m		
	MCU ~ Indoor unit	Pipe length	45 m or less	Installing only with MCU	b+c ≤ 45 m, b+d ≤ 45 m, b+e ≤ 45 m, f≤ 45 m, g+h ≤ 45 m, g+i ≤ 45 m, g+j ≤ 45 m	
				Installing with MCU and Y-joint	c+d, c+e, c+f, g, h+i, h+j, h+k, n, o, p, q, r ≤ 45 m	

10. Installation

Refrigerant pipe installation

<table>
<tr><th colspan="4">Classification</th><th colspan="2">Example</th><th>Remarks</th></tr>
<tr><td rowspan="4">Maximum allowable height difference</td><td>Outdoor unit ~ Indoor unit</td><td rowspan="4">Pipe length</td><td>110 m / 110 m Note 1)</td><td colspan="2">H1 ≤ 110 m / 110 m</td><td></td></tr>
<tr><td rowspan="2">Indoor unit ~ Indoor unit</td><td>40 m or less</td><td colspan="2">H2 ≤ 40 m</td><td rowspan="2"></td></tr>
<tr><td colspan="3">But, when AM✳✳✳✳NQDEH✳ / AM✳✳✳JNV✳ is installed, H2 is 15 m or less.</td></tr>
<tr><td>Indoor unit ~ Indoor unit (in one MCU)</td><td>15 m or less</td><td colspan="2">H3 ≤ 15 m</td><td></td></tr>
<tr><td>MCU ~ MCU</td><td>30 m or less</td><td colspan="2">H4 ≤ 30 m</td><td></td></tr>
<tr><td rowspan="3">Maximum allowable length after branch joint</td><td rowspan="3">First branch joint ~ Farthest Indoor unit</td><td rowspan="3">Pipe length</td><td rowspan="2">45 m or less</td><td>Installing only with MCU</td><td>g+j ≤ 45 m</td><td></td></tr>
<tr><td>Installing with MCU and Y-joint</td><td>b+h+k ≤ 45 m
l+m+q ≤ 45 m
l+r ≤ 45 m</td><td rowspan="2"></td></tr>
<tr><td>45 ~ 90 m Note 2)</td><td colspan="2">Required conditions must be satisfied</td></tr>
</table>

<table>
<tr><th colspan="3">EEV kit</th><th colspan="2">Model name</th><th>Remarks</th></tr>
<tr><td rowspan="10">EEV kit ~ Indoor unit</td><td rowspan="10">Actual pipe length</td><td rowspan="2">2 m</td><td>MEV-E24SA</td><td rowspan="2">1 indooor</td><td rowspan="10">Apply to products without EEV (Wall mount & ceiling)</td></tr>
<tr><td>MEV-E32SA</td></tr>
<tr><td rowspan="8">20 m or less</td><td>MXD-E24K132A</td><td rowspan="3">2 indooor</td></tr>
<tr><td>MXD-E24K200A</td></tr>
<tr><td>MXD-E32K200A</td></tr>
<tr><td>MXD-E24K232A</td><td rowspan="4">3 indooor</td></tr>
<tr><td>MXD-E24K300A</td></tr>
<tr><td>MXD-E32K224A</td></tr>
<tr><td>MXD-E32K300A</td></tr>
</table>

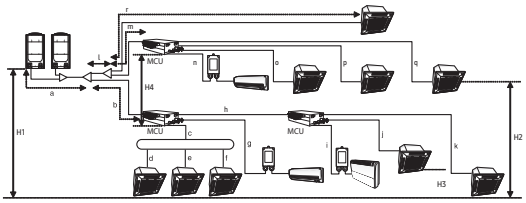
※ Please refer to the EEV Kit manual.

10. Installation

Refrigerant pipe installation

Note 1) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m, (If the height difference is over 40m, 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 (If the height difference is over 50m, need to decide whether to install PDM kit or not.)
Model name of the PDM kit : MXD-A38K2A, MXD-A12K2A, MXD-A58K2A

Note 2) Required condition

Classification	Condition	Example
First branch joint ~ Farthest Indoor unit	45 m ≤ b+h+k, l+m+q, l+r ≤ 90 m : Size of the branch liquid and low pressure gas pipes (b, l, m) 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+l+m) x 2+c+d+e+f+g+h+i+j+k+n+o+p+q+r ≤ 1000 m	
	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is increased by 1 grade, (a+b+l+m) x 2+c+d+e+f+g+h+i+j+k+n+o+p+q+r ≤ 1000 m	
MCU ~ Each indoor unit	c+d, c+e, c+f, g, h+i, h+j, h+k, n, o, p, q, r ≤ 45 m	
Difference between the distance of the outdoor unit to the farthest indoor unit and nearest indoor unit ≤ 45 (a+b+h+k) - (a+b+c+d) ≤ 45		

Note 3) For indoor units to which no MCU is connected, be sure to set their options to “Cooling only indoor unit,” and then connect them to a low pressure gas pipe and a liquid pipe. Be sure to combine the cooling only indoor units so that their total capacity becomes 50% or less of the total capacity of all indoor units.

Note 4) In case of connecting more than one indoor unit in one MCU Port, the below indoor units can not be combined. ERV plus (AM✻✻✻FNKDE✻✻), OAP duct(AM✻✻✻JNEPE✻✻), Hydro Unit HE(AM✻✻✻FNBD✻✻), Hydro Unit HT(AM✻✻✻FNBF✻✻), AHU kit (MXD-K✻✻✻AN, MCM-D✻✻✻N)

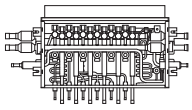
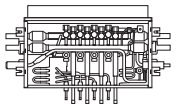
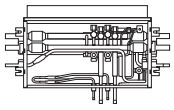
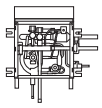
Note 5) In case of connecting two MCU ports with Y-joint, the indoor units can not be combined to more than one.

10. Installation

Refrigerant pipe installation

Installing the MCU

MCU specification

Model	MCU-S6NEK2N	MCU-S4NEK3N	MCU-S2NEK2N	MCU-S1NEK1N
Exterior of MCU				
Number of connectable indoor units at one port	Up to 8 units	Up to 8 units	Up to 8 units	Up to 8 units
The maximum capacity of the connectable indoor units at one port	16 kW	16 kW	16 kW	16 kW
The maximum capacity of the connectable indoor units	61.6 kW	61.6 kW	32.0 kW	16 kW
Internal EEV	Not included			

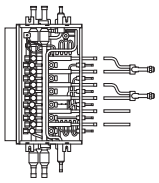
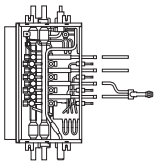
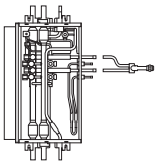
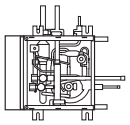
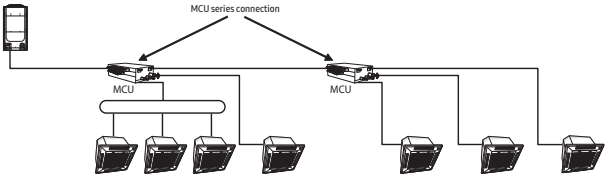
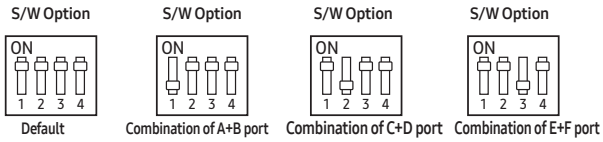
CAUTION

- Indoor units without internal EEV(AM✳✳✳✳NTDE✳, AM✳✳✳✳NADE✳) can not be connected directly to the MCU.
- Please connect these indoor units using EEV kit(MEV-E✳✳SA, MXD-E✳✳K✳✳✳A).

10. Installation

Refrigerant pipe installation

Installing the indoor units

<table>
<tr><th>Model</th><th>MCU-S6NEK2N</th><th>MCU-S4NEK3N</th><th>MCU-S2NEK2N</th><th>MCU-S1NEK1N</th></tr>
<tr><td>Example installing (Each port connection)</td><td>  </td><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Example installing (MCU series connection)</td><td colspan="4"> 
</td></tr>
<tr><td>Installing indoor units</td><td colspan="3">Under 16.0 kW indoor unit : Don’t use Y-connector
16.0 kW ~ 28.0 kW indoor unit : Use Y-connector at the Gas & Liquid line
If you want to continuous cooling operation under -5 °C, set outdoor ‘Expand operational temperature range for cooling operation (HR only)’, and use Y-connector on 5.0 ~ 16 kW indoor unit
In case of using Y-connector, it is only connectable for port combination at below
Connectable port combination for Y-connector : A + B port, C + D port, E + F port
Non-connectable port combination for Y-connector : B + C port, D + E port, non-continuous port
Set Dip Switch option for using Y-connector
 

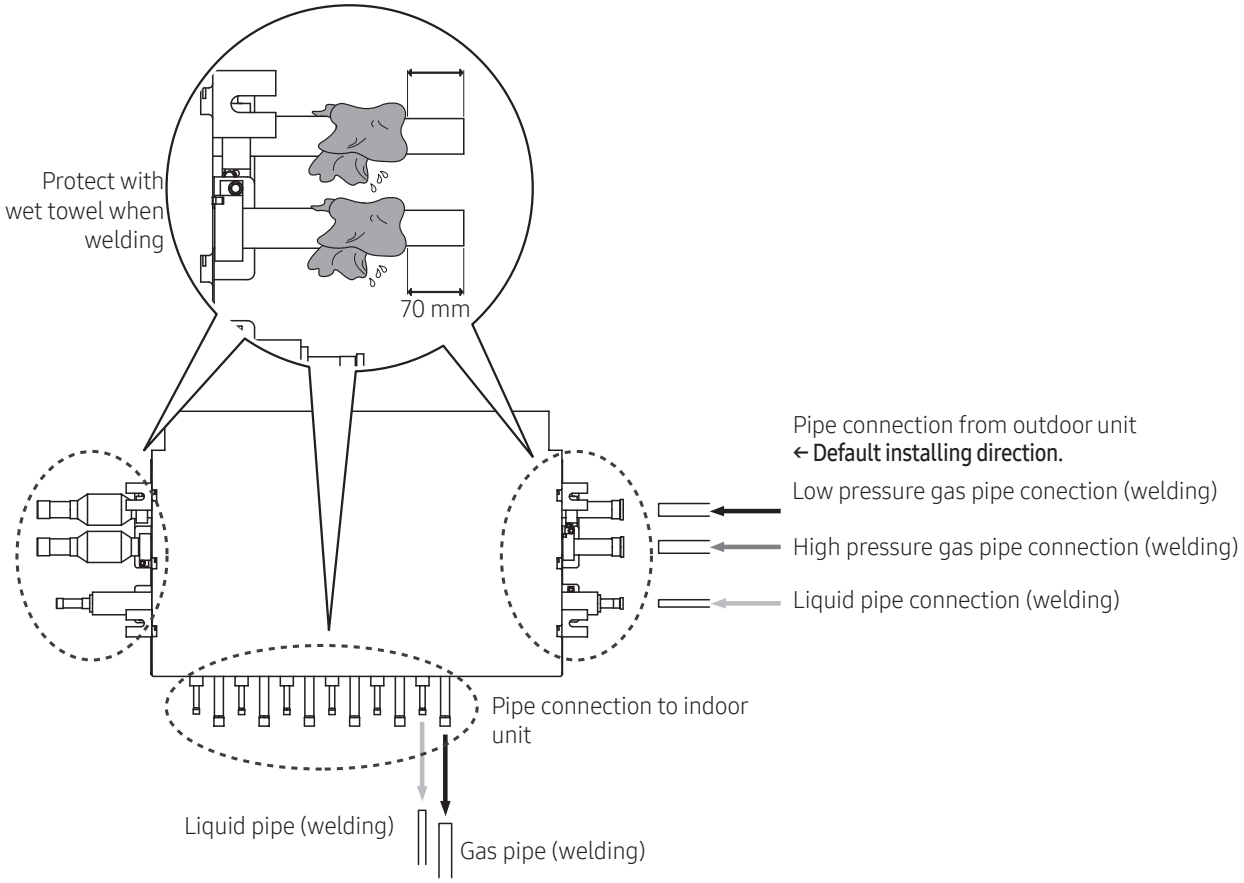
In case of MCU connection in series, the maximum capacity of indoor units in MCU series connection is 61.6 kW</td><td>This unit is only connectable for one port under 16 Kw

This unit is impossible to connect MCU to MCU in series.</td></tr>
</table>

10. Installation

Refrigerant pipe installation

How to connect the pipes



✳ When installing MCU, use the pattern sheet for installation that is provided with the product.

✳ When welding the gas pipes, protect the product with the flame-proof sheet.

✳ When connecting the MCU with outdoor units, default direction is set in the MCU.
If installing opposite direction, weld the enclosed copper cap in each high pressure, low pressure and liquid pipes.

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Ver.2.2

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