

SAMSUNG

VRF

Technical Data Book

**DVM S2 for Baltics
(R410A, 50Hz, HR)**



Model : Premium energy efficiency Type

History

Version	Modification	Date	Remark
Ver.1.0	Release DVM S2 (R410A, 50Hz, HR) for Baltics TDB	24.08.22	
Ver.1.1	Updated the note in Specification page	24.11.12	
Ver.2.0	Update	25.07.11	
Ver.2.1	Update some pages	25.12.22	

Nomenclature

Outdoor Unit

Model Name

AM

260

A

X

V

G

G

R

/

EU

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

Buyer

(1) Classification

AM	DVM
----	-----

(5) Feature 1

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

(2) Capacity

x 1/10 HP (3 digits)

(6) Feature 2

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

(3) Version

A	2021
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(7) Rating Voltage

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

(4) Product Type

X	Outdoor Unit
N	Indoor Unit

(8) Mode

H	Heat Pump
R	Heat Recovery

Features & Benefits

Rebuilt on all new innovations

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



Perfectly compatible with WindFree™

Active Frequency Drive 10Hz

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

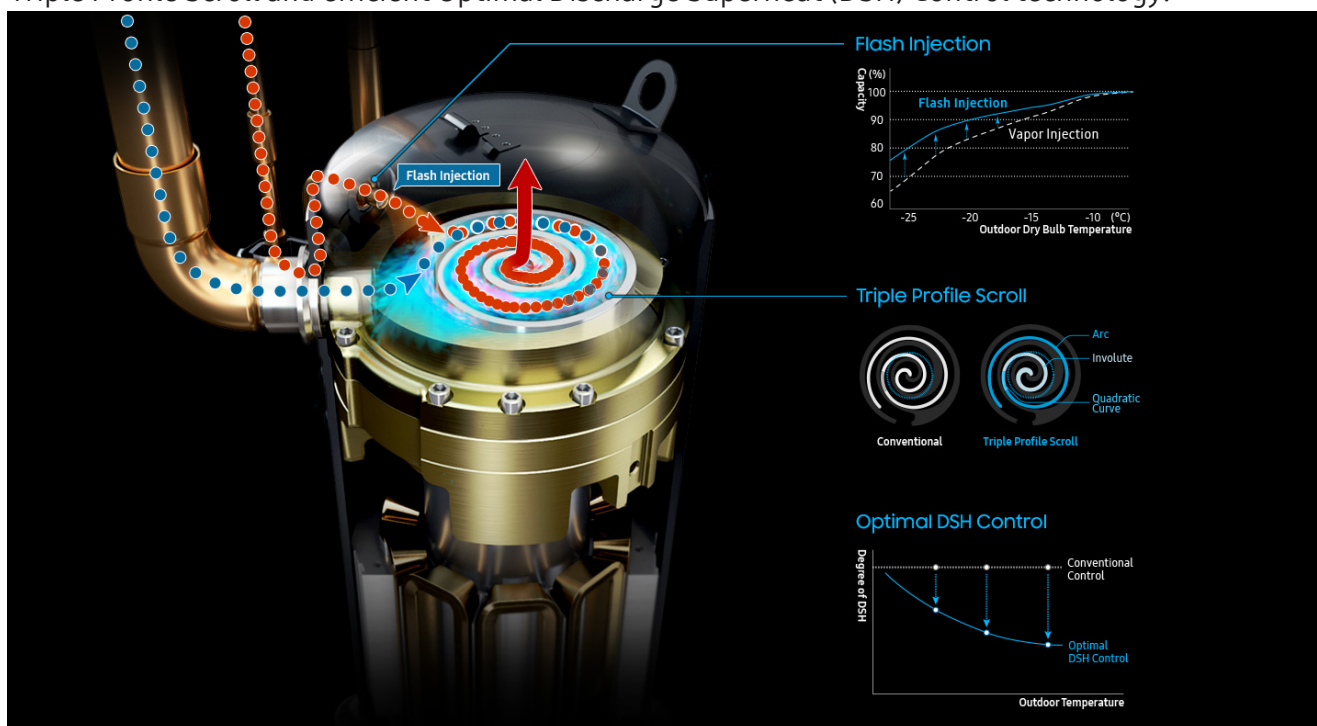


Features & Benefits

Enabling a new era of consistent comfort

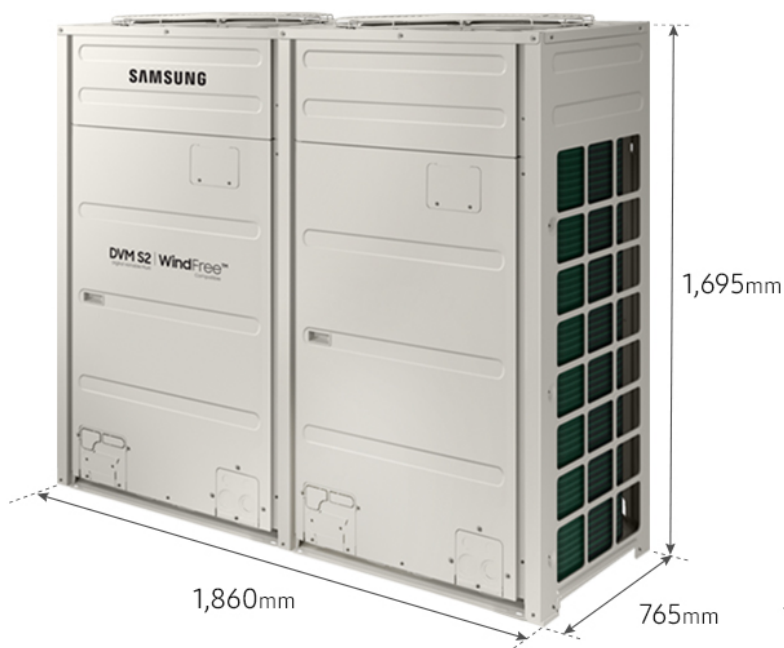
Advanced Flash Injection Compressor

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



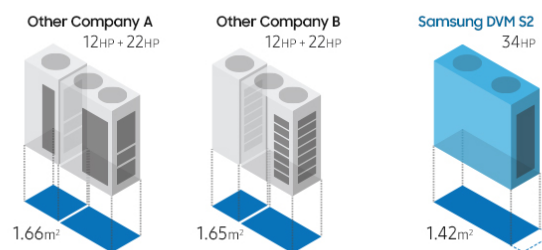
* Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (= 88cc x 140rps).

More powerful performance, less space



34HP Super Capacity with a Compact Design

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



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

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1. Combination Table

Premium energy efficiency

System Model			Capacity (HP)									
Capa	Model Name	Number of individual outdoor units	8	10	12	14	16	18	20	22	24	26
8HP	AM080AXVGGR/EU	1	1									
10HP	AM100AXVGGR/EU	1		1								
12HP	AM120AXVGGR/EU	1			1							
14HP	AM140AXVGGR/EU	1				1						
16HP	AM160AXVGGR/EU	1					1					
18HP	AM180AXVGGR/EU	1						1				
20HP	AM200AXVGGR/EU	1							1			
22HP	AM220AXVGGR/EU	1								1		
24HP	AM240AXVGGR/EU	1									1	
26HP	AM260AXVGGR/EU	1										1
28HP	AM280AXVGGR1EU	2		1				1				
30HP	AM300AXVGGR1EU	2		1					1			
32HP	AM320AXVGGR1EU	2	1								1	
34HP	AM340AXVGGR1EU	2		1							1	
36HP	AM360AXVGGR1EU	2		1								1
38HP	AM380AXVGGR1EU	2			1							1
40HP	AM400AXVGGR1EU	2							2			
42HP	AM420AXVGGR1EU	2						1			1	
44HP	AM440AXVGGR1EU	2							1		1	
46HP	AM460AXVGGR1EU	2							1			1
48HP	AM480AXVGGR1EU	2									2	
50HP	AM500AXVGGR1EU	2									1	1
52HP	AM520AXVGGR1EU	2										2
54HP	AM540AXVGGR1EU	3		1					1		1	
56HP	AM560AXVGGR1EU	3		1					1			1
58HP	AM580AXVGGR1EU	3		1							2	
60HP	AM600AXVGGR1EU	3		1							1	1
62HP	AM620AXVGGR1EU	3		1								2
64HP	AM640AXVGGR1EU	3			1							2
66HP	AM660AXVGGR1EU	3						1			2	
68HP	AM680AXVGGR1EU	3							1		2	
70HP	AM700AXVGGR1EU	3							1		1	1
72HP	AM720AXVGGR1EU	3									3	
74HP	AM740AXVGGR1EU	3									2	1
76HP	AM760AXVGGR1EU	3									1	2
78HP	AM780AXVGGR1EU	3										3
80HP	AM800AXVGGR1EU	4		1					1		1	1
82HP	AM820AXVGGR1EU	4		1							3	
84HP	AM840AXVGGR1EU	4		1							2	1
86HP	AM860AXVGGR1EU	4		1							1	2
88HP	AM880AXVGGR1EU	4		1								3
90HP	AM900AXVGGR1EU	4			1							3
92HP	AM920AXVGGR1EU	4							1		3	
94HP	AM940AXVGGR1EU	4							1		2	1
96HP	AM960AXVGGR1EU	4									4	
98HP	AM980AXVGGR1EU	4									3	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.
 $0.5 \times \Sigma(\text{Outdoor unit capacity}) \leq \text{Total capacity of the connected indoor units} \leq 1.3 \times \Sigma(\text{Outdoor unit capacity})$
 - ※ You can connect maximum 64 indoor units to the outdoor unit. Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
 - ※ Maximum 32 Wall-mount type indoor units with EEV (AM***NQDEH**, AM***JNVDKH**) can be connected.

1. Combination Table

External Appearance

Premium energy efficiency

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
8 10 12	AM080AXVGGR1EU AM100AXVGGR1EU AM120AXVGGR1EU		66 68 70 72 74 76 78	AM660AXVGGR1EU AM680AXVGGR1EU AM700AXVGGR1EU AM720AXVGGR1EU AM740AXVGGR1EU AM760AXVGGR1EU AM780AXVGGR1EU	
14 16 18 20 22 24 26	AM140AXVGGR1EU AM160AXVGGR1EU AM180AXVGGR1EU AM200AXVGGR1EU AM220AXVGGR1EU AM240AXVGGR1EU AM260AXVGGR1EU		80 82 84 86 88 90	AM800AXVGGR1EU AM820AXVGGR1EU AM840AXVGGR1EU AM860AXVGGR1EU AM880AXVGGR1EU AM900AXVGGR1EU	
28 30 32 34 36 38	AM280AXVGGR1EU AM300AXVGGR1EU AM320AXVGGR1EU AM340AXVGGR1EU AM360AXVGGR1EU AM380AXVGGR1EU		92 94 96 98	AM920AXVGGR1EU AM940AXVGGR1EU AM960AXVGGR1EU AM980AXVGGR1EU	
40 42 44 46 48 50 52	AM400AXVGGR1EU AM420AXVGGR1EU AM440AXVGGR1EU AM460AXVGGR1EU AM480AXVGGR1EU AM500AXVGGR1EU AM520AXVGGR1EU				
54 56 58 60 62 64	AM540AXVGGR1EU AM560AXVGGR1EU AM580AXVGGR1EU AM600AXVGGR1EU AM620AXVGGR1EU AM640AXVGGR1EU				

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

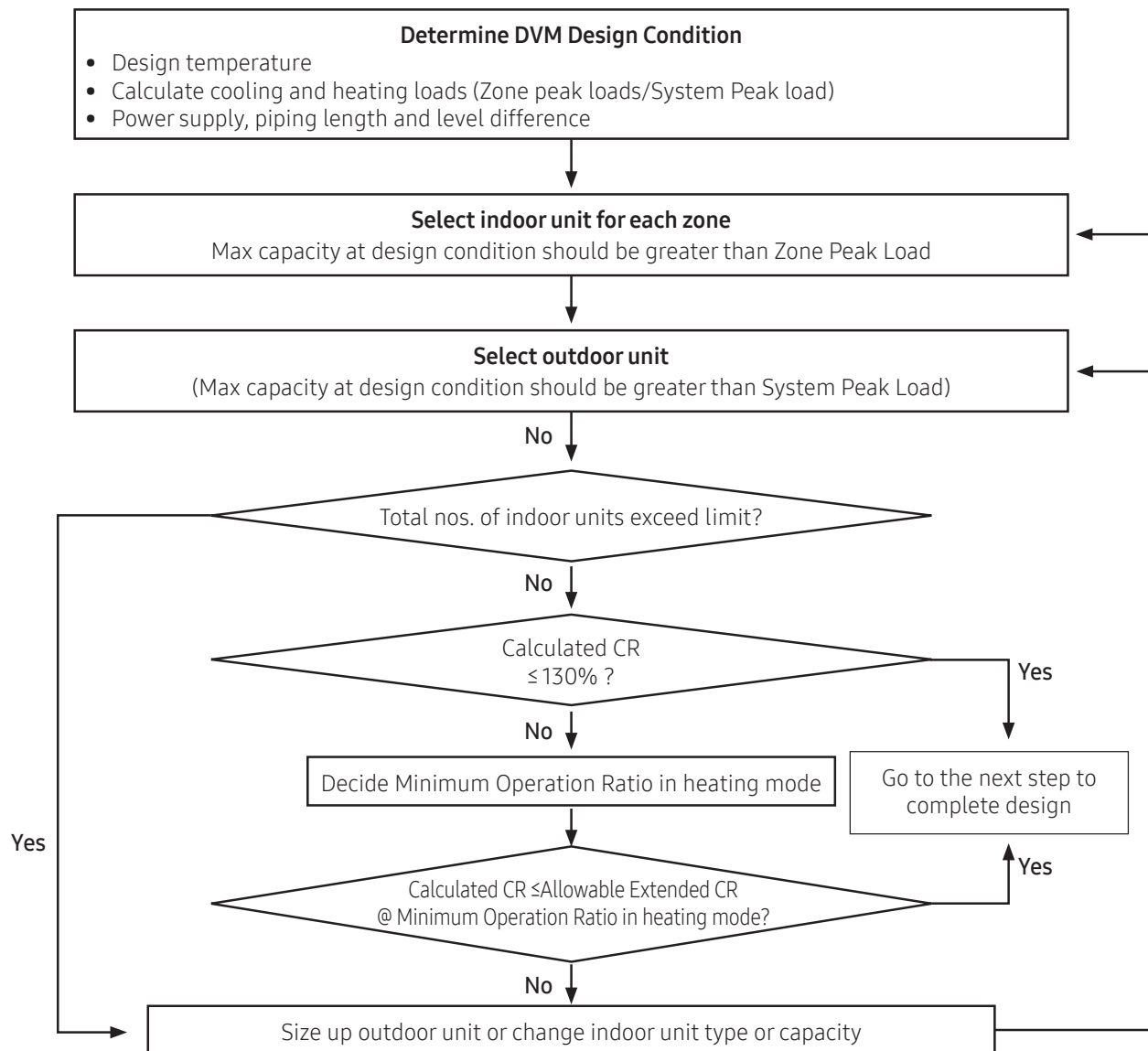


Fig. 1 Design & Selection Procedure for Extended Combination Ratio

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%

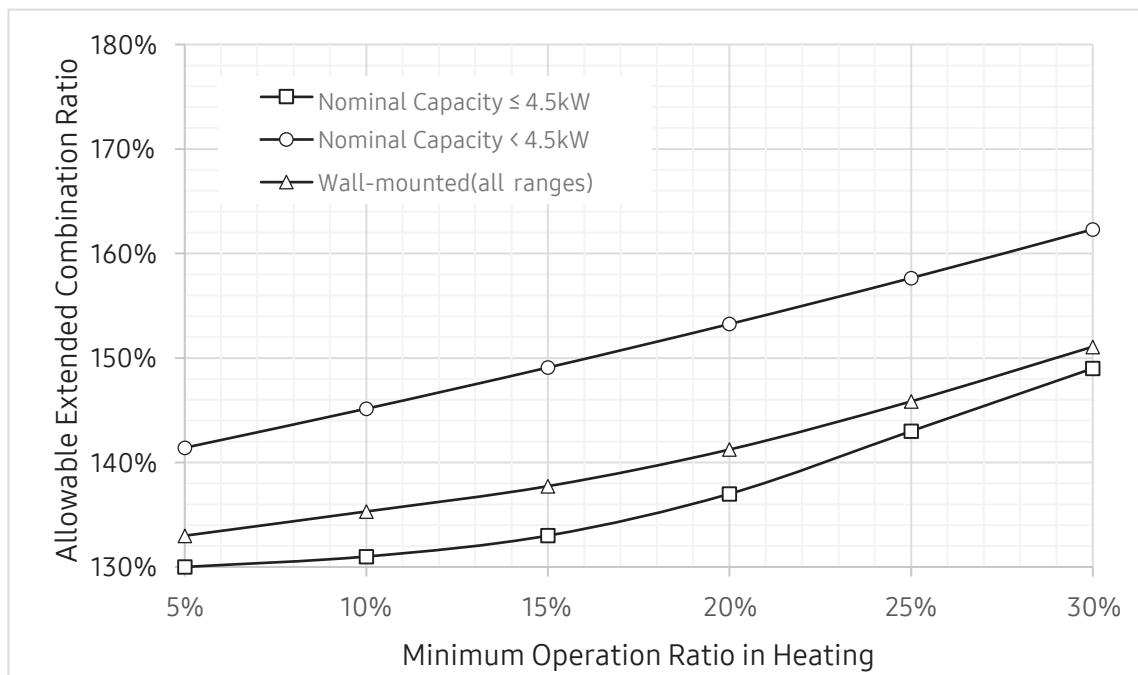


Fig. 2 Allowable CR with respect to indoor unit type as operation ratio increases

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 energy efficiency

Model Name				AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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
Current	Current Input (Ducted)	Cooling(Rated)	A	11.44	15.97	19.25
		Heating(Rated)	A	9.09	11.41	14.37
	Current Input (Non-Ducted)	Cooling(Rated)	A	9.99	13.84	17.74
		Heating(Rated)	A	8.05	10.83	14.25
	Current	Minimum Ssc	MVA	3.0	3.4	4.0
		MCA	A	18.0	21.2	25.0
		MFA	A	25	32	32
Efficiency	SEER	Ducted	W/W	7.20	6.90	6.90
	SCOP		W/W	4.50	4.40	4.56
	ηs.c		%	285.0	273.0	273.0
	ηs.h		%	177.0	173.0	179.4
	SEER	Non_Ducted	W/W	7.78	7.22	7.22
	SCOP		W/W	4.53	4.39	4.41
	ηs.c		%	308.2	285.8	285.8
	ηs.h		%	178.2	172.6	173.4
	Pdesignh		kW	14	16.9	19.7
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	4.60 x 1	6.67 x 1	6.67 x 1
	Model Name		-	DS2GR7046FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	1	1	1
			m³/min	164	181	196
	Air Flow Rate		l/s	2,738	3,019	3,260
			External Static Pressure	Max.	mmAq	11
	Pa	110			110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 1	630 x 1	630 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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0	7.0	7.0
			tCO ₂ e	14.62	14.62	14.62
Sound	Sound Pressure	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power		dB(A)	75	78	81
External Dimension	Net Weight		kg	199	211	211
	Shipping Weight		kg	213	225	225
	Net Dimensions (WxHxD)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	998 x 1,887 x 829	998 x 1,887 x 829	998 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×4 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM090ANPKH×2 + AM128ANPKH×2
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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
Current	Current Input (Ducted)	Cooling(Rated)	A	25.44	26.96	26.79
		Heating(Rated)	A	17.06	19.35	21.14
	Current Input (Non-Ducted)	Cooling(Rated)	A	24.44	24.77	29.19
		Heating(Rated)	A	17.58	18.98	21.85
	Current	Minimum Ssc	MVA	4.4	5.2	6.4
		MCA	A	27.0	32.0	39.2
		MFA	A	32	40	50
Efficiency	SEER	Ducted	W/W	6.70	6.90	7.50
	SCOP		W/W	4.25	4.30	4.80
	ηs.c		%	265.0	273.0	297.0
	ηs.h		%	167.0	169.0	189.0
	SEER	Non_Ducted	W/W	6.94	7.25	7.05
	SCOP		W/W	4.35	4.35	4.45
	ηs.c		%	274.6	287.0	279.0
	ηs.h		%	171.0	171.0	175.0
	Pdesignh		kW	22.6	25	28.3
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	6.67 x 1	8.93 x 1	8.93 x 1
	Model Name		-	DS4GR7066FV* x 1	DS4GM7090FV* x 1	DS4GM7090FV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,400 x 1	1,400 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
			m³/min	291	292	313
	Air Flow Rate		l/s	4,852	4,866	5,209
			External Static Pressure	Max.	mmAq	11
	Pa	110			110	110
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	8.0	10.5	10.5
			tCO ₂ e	16.70	21.92	21.92
Sound	Sound Pressure	Cooling	dB(A)	58	58	59
		Heating	dB(A)	61	61	63
	Sound Power		dB(A)	81	81	81
External Dimension	Net Weight		kg	237	268	274
	Shipping Weight		kg	254	285	291
	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 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×4 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×5 + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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
Current	Current Input (Ducted)	Cooling(Rated)	A	38.63	44.15	48.62
		Heating(Rated)	A	25.72	27.29	44.20
	Current Input (Non-Ducted)	Cooling(Rated)	A	36.21	38.67	47.27
		Heating(Rated)	A	25.11	26.51	44.20
	Current	Minimum Ssc	MVA	7.0	7.4	9.3
		MCA	A	43.0	46.0	55.0
		MFA	A	63	63	63
Efficiency	SEER	Ducted	W/W	6.50	6.20	5.90
	SCOP		W/W	4.50	4.30	3.90
	ηs.c		%	257.0	245.0	233.0
	ηs.h		%	177.0	169.0	153.0
	SEER	Non_Ducted	W/W	6.81	7.04	5.94
	SCOP		W/W	4.27	4.39	3.90
	ηs.c		%	269.4	278.6	234.6
	ηs.h		%	167.8	172.6	153.0
	Pdesignh		kW	31.1	31.8	32.4
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	8.93 x 1	6.67 x 2	6.67 x 2
	Model Name		-	DS4GM7090FV* x 1	DS4GR7066FV* x 2	DS4GR7066FV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,400 x 1	1,100 x 2	1,100 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
			m³/min	313	342	365
	Air Flow Rate		l/s	5,209	5,698	6,089
			External Static Pressure	Max.	mmAq	11
	Pa	110			110	80
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	10.5	10.5	14.0
			tCO ₂ e	21.92	21.92	29.23
Sound	Sound Pressure	Cooling	dB(A)	61	64	65
		Heating	dB(A)	63	65	67
	Sound Power		dB(A)	84	86	87
External Dimension	Net Weight		kg	274	309	332
	Shipping Weight		kg	291	326	349
	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 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×4 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM090ANPKH×2 + AM128ANPKH×2
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM260AXVGGR/EU	AM280AXVGGR1EU	AM300AXVGGR1EU
				-	AM100AXVGGR/EU	AM100AXVGGR/EU
				-	AM180AXVGGR/EU	AM200AXVGGR/EU
				-	-	-
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 PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	26	28	30
	Capacity	Cooling(Rated)	kW	72.8	78.4	84.0
		Heating(Rated)	kW	68.0	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
Current	Current Input (Ducted)	Cooling(Rated)	A	57.61	42.76	54.60
		Heating(Rated)	A	45.11	32.55	37.13
	Current Input (Non-Ducted)	Cooling(Rated)	A	57.61	43.03	50.05
		Heating(Rated)	A	45.11	32.68	35.94
	Current	Minimum Ssc	MVA	10.2	9.8	10.4
		MCA	A	60.0	60.4	64.2
		MFA	A	75	75	75
Efficiency	SEER	Ducted	W/W	5.40	7.29	7.26
	SCOP		W/W	3.90	4.66	4.70
	ηs.c		%	213.0	288.6	287.4
	ηs.h		%	153.0	183.4	185.0
	SEER	Non_Ducted	W/W	5.45	7.11	7.12
	SCOP		W/W	3.90	4.43	4.43
	ηs.c		%	215.0	281.4	281.8
	ηs.h		%	153.0	174.2	174.2
	Pdesignh		kW	33	45.2	48
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	6.67 x 2	(6.67 x 1) x 1 + (8.93 x 1) x 1	(6.67 x 1) x 1 + (8.93 x 1) x 1
	Model Name		-	DS4GR7066FV* x 2	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	(1,100 x 1) x 1 + (1,400 x 1) x 1	(1,100 x 1) x 1 + (1,400 x 1) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	3	3
			Air Flow Rate		m³/min	365
			l/s	6,089	3,019 x 1 + 5,209 x 1	3,019 x 1 + 5,209 x 1
	External Static Pressure	Max.	mmAq	8	11	11
			Pa	80	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM260AXVGGR/EU	AM280AXVGGR1EU	AM300AXVGGR1EU
Outdoor unit module	Outdoor unit module 1			-	AM100AXVGGR/EU	AM100AXVGGR/EU
	Outdoor unit module 2			-	AM180AXVGGR/EU	AM200AXVGGR/EU
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	50	50
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 10.5 x 1	7.0 x 1 + 10.5 x 1
			tCO ₂ e	29.23	36.54	36.54
Sound	Sound Pressure	Cooling	dB(A)	65	61	62
		Heating	dB(A)	67	65	65
	Sound Power		dB(A)	87	83	85
External Dimension	Net Weight		kg	332	211 x 1 + 274 x 1	211 x 1 + 274 x 1
	Shipping Weight		kg	349	225 x 1 + 291 x 1	225 x 1 + 291 x 1
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANHPKH + AM056ANHPKH×2 + AM090ANHPKH	18HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM056ANHPKH×2 + AM090ANHPKH×2 + AM071ANHPKH + AM071ANHPKH
10HP	AM056ANHPKH×2 + AM090ANHPKH×2	20HP	AM028ANHPKH + AM056ANHPKH×2 + AM090ANHPKH×2 + AM071ANHPKH + AM071ANHPKH
12HP	AM028ANHPKH×2 + AM056ANHPKH×2 + AM090ANHPKH×2	22HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM128ANHPKH
14HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM128ANHPKH	24HP	AM071ANHPKH + AM128ANHPKH×2 + AM128ANHPKH×3
16HP	AM028ANHPKH + AM056ANHPKH + AM090ANHPKH×3 + AM128ANHPKH	26HP	AM071ANHPKH + AM128ANHPKH + AM128ANHPKH×4

2. Specification

Premium energy efficiency

Model Name				AM320AXVGGR1EU	AM340AXVGGR1EU	AM360AXVGGR1EU	
				AM080AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU	
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU	
				-	-	-	
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 PUMP	HEAT PUMP	HEAT PUMP	
Performance	HP		HP	32	34	36	
	Capacity	Cooling(Rated)	kW	89.6	95.2	100.8	
		Heating(Rated)	kW	89.6	95.2	96.0	
		Heating(Max)	kW	100.8	107.1	113.4	
Maximum number of connectable indoor units			EA	58	61	64	
Total capacity of the connected Indoor Units		Min.	kW	44.8	47.6	50.4	
		Max.	kW	116.5	123.8	131.0	
Current	Current Input (Ducted)	Cooling(Rated)	A	60.06	64.59	73.58	
		Heating(Rated)	A	53.29	55.61	56.52	
	Current Input (Non-Ducted)	Cooling(Rated)	A	57.26	61.11	71.45	
		Heating(Rated)	A	52.25	55.03	55.94	
	Current	Minimum Ssc	MVA	12.3	12.7	13.6	
		MCA	A	73.0	76.2	81.2	
		MFA	A	80	90	90	
Efficiency	SEER	Ducted	W/W	6.65	7.22	7.50	
	SCOP		W/W	4.52	4.56	4.80	
	ηs.c		%	263.0	285.8	297.0	
	ηs.h		%	177.8	179.4	189.0	
	SEER	Non_Ducted	W/W	6.96	7.14	7.05	
	SCOP		W/W	4.32	4.40	4.45	
	ηs.c		%	275.4	282.6	279.0	
	ηs.h		%	169.8	173.0	175.0	
	Pdesignh		kW	46.4	49.3	49.9	
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 3	Inverter Scroll x 3	
	Output		kW x n	(4.60 x 1) x 1 + (6.67 x 2) x 1	(6.67 x 1) x 1 + (6.67 x 2) x 1	(6.67 x 1) x 1 + (6.67 x 2) x 1	
	Model Name		-	(DS2GR7046FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	
	Oil	Type	-	PVE	PVE	PVE	
		Initial charge	cc x n	(900 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		m³/min	164 x 1 + 365 x 1	181 x 1 + 365 x 1
	External Static Pressure		Max.	l/s	2,738 x 1 + 6,089 x 1	3,019 x 1 + 6,089 x 1	3,019 x 1 + 6,089 x 1
				mmAq	11	11	11
	Pa		110	110	110		
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1	
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	

2. Specification

Premium energy efficiency

Model Name				AM320AXVGGR1EU	AM340AXVGGR1EU	AM360AXVGGR1EU
	Outdoor unit module 1			AM080AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
	Outdoor unit module 3			-	-	-
Piping Connections	Outdoor unit module 4			-	-	-
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 14.0 x 1	7.0 x 1 + 14.0 x 1	7.0 x 1 + 14.0 x 1
Sound	Sound Pressure	Cooling	dB(A)	65	66	66
		Heating	dB(A)	68	68	68
	Sound Power		dB(A)	87	88	88
			tCO ₂ e	43.85	43.85	43.85
External Dimension	Net Weight		kg	199 x 1 + 332 x 1	211 x 1 + 332 x 1	211 x 1 + 332 x 1
	Shipping Weight		kg	213 x 1 + 349 x 1	225 x 1 + 349 x 1	225 x 1 + 349 x 1
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM380AXVGGR1EU	AM400AXVGGR1EU	AM420AXVGGR1EU
				AM120AXVGGR/EU	AM200AXVGGR/EU	AM180AXVGGR/EU
				AM260AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
				-	-	-
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 PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	38	40	42
	Capacity	Cooling(Rated)	kW	106.4	112.0	117.6
		Heating(Rated)	kW	101.6	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	53.2	56.0	58.8
		Max.	kW	138.3	145.6	152.9
Current	Current Input (Ducted)	Cooling(Rated)	A	76.86	77.26	75.41
		Heating(Rated)	A	59.48	51.44	65.34
	Current Input (Non-Ducted)	Cooling(Rated)	A	75.35	72.42	76.46
		Heating(Rated)	A	59.36	50.22	66.05
	Current	Minimum Ssc	MVA	14.2	14.0	15.7
		MCA	A	85.0	86.0	94.2
		MFA	A	100	100	125
Efficiency	SEER	Ducted	W/W	6.97	6.50	6.34
	SCOP		W/W	4.64	4.50	4.40
	ηs.c		%	275.8	257.0	250.6
	ηs.h		%	182.6	177.0	173.0
	SEER	Non_Ducted	W/W	6.92	6.81	6.93
	SCOP		W/W	4.36	4.27	4.33
	ηs.c		%	273.8	269.4	274.2
	ηs.h		%	171.4	167.8	170.2
	Pdesignh		kW	52.7	62.2	60.7
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 2	Inverter Scroll x 3
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 1	(8.93 x 1) x 2	(8.93 x 1) x 1 + (6.67 x 2) x 1
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GM7090FV* x 1) x 2	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* 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 1) x 2	(1,400 x 1) x 1 + (1,100 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	3	4	4
	Air Flow Rate		m³/min	196 x 1 + 365 x 1	313 x 2	313 x 1 + 365 x 1
			l/s	3,260 x 1 + 6,089 x 1	5,209 x 2	5,209 x 1 + 6,089 x 1
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2	(620 x 2) x 2
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM380AXVGGR1EU	AM400AXVGGR1EU	AM420AXVGGR1EU
	Outdoor unit module 1			AM120AXVGGR/EU	AM200AXVGGR/EU	AM180AXVGGR/EU
	Outdoor unit module 2			AM260AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			-	-	-
Piping Connections	Outdoor unit module 4			-	-	-
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 14.0 x 1	10.5 x 2	10.5 x 1 + 14.0 x 1
			tCO ₂ e	43.85	43.85	51.16
Sound	Sound Pressure	Cooling	dB(A)	66	64	66
		Heating	dB(A)	68	66	68
	Sound Power		dB(A)	88	87	88
External Dimension	Net Weight		kg	211 x 1 + 332 x 1	274 x 2	274 x 1 + 332 x 1
	Shipping Weight		kg	225 x 1 + 349 x 1	291 x 2	291 x 1 + 349 x 1
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM028ANPKH + AM090ANPKH + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3

2. Specification

Premium energy efficiency

Model Name				AM440AXVGGR1EU	AM460AXVGGR1EU	AM480AXVGGR1EU
				AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
				-	-	-
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 PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	44	46	48
	Capacity	Cooling(Rated)	kW	123.2	128.8	134.4
		Heating(Rated)	kW	123.2	124.0	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
Current	Current Input (Ducted)	Cooling(Rated)	A	87.25	96.24	97.24
		Heating(Rated)	A	69.92	70.83	88.40
	Current Input (Non-Ducted)	Cooling(Rated)	A	83.48	93.82	94.54
		Heating(Rated)	A	69.31	70.22	88.40
	Current	Minimum Ssc	MVA	16.3	17.2	18.6
		MCA	A	98.0	103.0	110.0
		MFA	A	125	125	125
Efficiency	SEER	Ducted	W/W	6.26	5.88	5.77
	SCOP		W/W	4.27	4.16	4.08
	igs.c		%	247.4	232.2	227.8
	igs.h		%	167.8	163.4	160.2
	SEER	Non_Ducted	W/W	6.10	6.04	6.18
	SCOP		W/W	4.13	4.06	4.12
	igs.c		%	241.0	238.6	244.2
	igs.h		%	162.2	159.4	161.8
	Pdesignh		kW	63.5	64.1	64.8
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 3	Inverter Scroll x 4
	Output		kW x n	(8.93 x 1) x 1 + (6.67 x 2) x 1	(8.93 x 1) x 1 + (6.67 x 2) x 1	(6.67 x 2) x 2
	Model Name		-	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,400 x 1) x 1 + (1,100 x 2) x 1	(1,400 x 1) x 1 + (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	m³/min	313 x 1 + 365 x 1	313 x 1 + 365 x 1
	l/s	5,209 x 1 + 6,089 x 1		5,209 x 1 + 6,089 x 1	6,089 x 2	
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM440AXVGGR1EU	AM460AXVGGR1EU	AM480AXVGGR1EU
	Outdoor unit module 1			AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			-	-	-
Piping Connections	Outdoor unit module 4			-	-	-
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	10.5 x 1 + 14.0 x 1	10.5 x 1 + 14.0 x 1	14.0 x 2
			tCO ₂ e	51.16	51.16	58.46
Sound	Sound Pressure	Cooling	dB(A)	66	66	68
		Heating	dB(A)	68	68	70
	Sound Power		dB(A)	89	89	90
External Dimension	Net Weight		kg	274 x 1 + 332 x 1	274 x 1 + 332 x 1	332 x 2
	Shipping Weight		kg	291 x 1 + 349 x 1	291 x 1 + 349 x 1	349 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 829) x 2	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM500AXVGGR1EU	AM520AXVGGR1EU	AM540AXVGGR1EU
				AM240AXVGGR/EU	AM260AXVGGR/EU	AM100AXVGGR/EU
				AM260AXVGGR/EU	AM260AXVGGR/EU	AM200AXVGGR/EU
				-	-	AM240AXVGGR/EU
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 PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	50	52	54
	Capacity	Cooling(Rated)	kW	140.0	145.6	151.2
		Heating(Rated)	kW	135.2	136.0	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
Current	Current Input (Ducted)	Cooling(Rated)	A	106.23	115.22	103.22
		Heating(Rated)	A	89.31	90.22	81.33
	Current Input (Non-Ducted)	Cooling(Rated)	A	104.88	115.22	97.32
		Heating(Rated)	A	89.31	90.22	80.14
	Current	Minimum Ssc	MVA	19.5	20.4	19.7
		MCA	A	115.0	120.0	119.2
		MFA	A	150	150	150
Efficiency	SEER	Ducted	W/W	5.64	5.40	6.38
	SCOP		W/W	3.90	3.90	4.29
	ηs.c		%	222.6	213.0	252.2
	ηs.h		%	153.0	153.0	168.6
	SEER	Non_Ducted	W/W	5.69	5.45	6.31
	SCOP		W/W	3.90	3.90	4.17
	ηs.c		%	224.6	215.0	249.4
	ηs.h		%	153.0	153.0	163.8
	Pdesignh		kW	65.4	66	80.4
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.67 x 2) x 2	(6.67 x 2) x 2	(6.67 x 1) x 1 + (8.93 x 1) x 1 +
	Model Name		-	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* 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 1) x 1 + (1,400 x 1) x 1 + (1,100 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	5
			Air Flow Rate	m³/min	365 x 2	365 x 2
	l/s	6,089 x 2		6,089 x 2	3,019 x 1 + 5,209 x 1 + 6,089 x 1	
	External Static Pressure	Max.	mmAq	8	8	11
			Pa	80	80	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM500AXVGGR1EU	AM520AXVGGR1EU	AM540AXVGGR1EU
	Outdoor unit module 1			AM240AXVGGR/EU	AM260AXVGGR/EU	AM100AXVGGR/EU
	Outdoor unit module 2			AM260AXVGGR/EU	AM260AXVGGR/EU	AM200AXVGGR/EU
	Outdoor unit module 3			-	-	AM240AXVGGR/EU
Piping Connections	Outdoor unit module 4			-	-	-
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 10.5 x 1 + 14.0 x 1
Sound			tCO ₂ e	58.46	58.46	65.77
	Sound Pressure	Cooling	dB(A)	68	68	67
		Heating	dB(A)	70	70	69
	Sound Power		dB(A)	90	90	89
External Dimension	Net Weight		kg	332 x 2	332 x 2	211 x 1 + 274 x 1 + 332 x
	Shipping Weight		kg	349 x 2	349 x 2	225 x 1 + 291 x 1 + 349 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM560AXVGGR1EU	AM580AXVGGR1EU	AM600AXVGGR1EU
				AM100AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU
				AM200AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
				AM260AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	56	58	60
	Capacity	Cooling(Rated)	kW	156.8	162.4	168.0
		Heating(Rated)	kW	152.0	162.4	163.2
		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
Current	Current Input (Ducted)	Cooling(Rated)	A	112.21	113.21	122.20
		Heating(Rated)	A	82.24	99.81	100.72
	Current Input (Non-Ducted)	Cooling(Rated)	A	107.66	108.38	118.72
		Heating(Rated)	A	81.05	99.23	100.14
	Current	Minimum Ssc	MVA	20.6	22.0	22.9
		MCA	A	124.2	131.2	136.2
		MFA	A	150	150	150
Efficiency	SEER	Ducted	W/W	6.40	6.09	5.99
	SCOP		W/W	4.33	4.24	4.18
	ηs.c		%	253.0	240.6	236.6
	ηs.h		%	170.2	166.6	164.2
	SEER	Non_Ducted	W/W	6.34	6.29	6.39
	SCOP		W/W	4.19	4.13	4.18
	ηs.c		%	250.6	248.6	252.6
	ηs.h		%	164.6	162.2	164.2
	Pdesignh		kW	81	81.7	82.3
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 5	Inverter Scroll x 5
	Output		kW x n	(6.67 x 1) x 1 + (8.93 x 1) x 1 +	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
Initial charge		cc x n	(1,100 x 1) x 1 + (1,400 x 1) x 1 + (1,100 x 2) x 1	(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		m³/min	181 x 1 + 313 x 1 + 365 x 1	181 x 1 + 365 x 2	181 x 1 + 365 x 2
			l/s	3,019 x 1 + 5,209 x 1 + 6,089 x 1	3,019 x 1 + 6,089 x 2	3,019 x 1 + 6,089 x 2
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM560AXVGGR1EU	AM580AXVGGR1EU	AM600AXVGGR1EU
	Outdoor unit module 1			AM100AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU
	Outdoor unit module 2			AM200AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			AM260AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
Piping Connections	Outdoor unit module 4			-	-	-
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 10.5 x 1 + 14.0 x 1	7.0 x 1 + 14.0 x 2	7.0 x 1 + 14.0 x 2
Sound			tCO ₂ e	65.77	73.08	73.08
	Sound Pressure	Cooling	dB(A)	67	68	68
		Heating	dB(A)	69	70	70
	Sound Power		dB(A)	89	90	90
External Dimension	Net Weight		kg	211 x 1 + 274 x 1 + 332 x	211 x 1 + 332 x 2	211 x 1 + 332 x 2
	Shipping Weight		kg	225 x 1 + 291 x 1 + 349 x 1	225 x 1 + 349 x 2	225 x 1 + 349 x 2
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM620AXVGGR1EU	AM640AXVGGR1EU	AM660AXVGGR1EU	
				AM100AXVGGR/EU	AM120AXVGGR/EU	AM180AXVGGR/EU	
				AM260AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU	
				AM260AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU	
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 PUMP	HEAT PUMP	HEAT PUMP	
Performance	HP		HP	62	64	66	
	Capacity	Cooling(Rated)	kW	173.6	179.2	184.8	
		Heating(Rated)	kW	164.0	169.6	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	
Current	Current Input (Ducted)	Cooling(Rated)	A	131.19	134.47	124.03	
		Heating(Rated)	A	101.63	104.59	109.54	
	Current Input (Non-Ducted)	Cooling(Rated)	A	129.06	132.96	123.73	
		Heating(Rated)	A	101.05	104.47	110.25	
	Current	Minimum Ssc	MVA	23.8	24.4	25.0	
		MCA	A	141.2	145.0	149.2	
		MFA	A	175	175	175	
Efficiency	SEER	Ducted	W/W	5.64	5.68	6.07	
	SCOP		W/W	3.98	4.02	4.26	
	igs.c		%	222.6	224.2	239.8	
	igs.h		%	156.2	157.8	167.4	
	SEER	Non_Ducted	W/W	5.74	5.78	6.27	
	SCOP		W/W	3.98	4.00	4.12	
	igs.c		%	226.6	228.2	247.8	
	igs.h		%	156.2	157.0	161.8	
	Pdesignh		kW	82.9	85.7	93.1	
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
Fin Treatment			-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 5	
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2	(8.93 x 1) x 1 + (6.67 x 2) x 2	
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	
	Oil	Type	-	PVE	PVE	PVE	
Initial charge		cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,400 x 1) x 1 + (1,100 x 2) x 2		
Fan	Type		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Top	Top	Top	
	Quantity		EA	5	5	6	
			Air Flow Rate		m³/min	181 x 1 + 365 x 2	196 x 1 + 365 x 2
	External Static Pressure		Max.	l/s	3,019 x 1 + 6,089 x 2	3,260 x 1 + 6,089 x 2	5,209 x 1 + 6,089 x 2
				mmAq	11	11	11
			Pa	110	110	110	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3	
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	

2. Specification

Premium energy efficiency

Model Name				AM620AXVGGR1EU	AM640AXVGGR1EU	AM660AXVGGR1EU
	Outdoor unit module 1			AM100AXVGGR/EU	AM120AXVGGR/EU	AM180AXVGGR/EU
	Outdoor unit module 2			AM260AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			AM260AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 14.0 x 2	7.0 x 1 + 14.0 x 2	10.5 x 1 + 14.0 x 2
			tCO ₂ e	73.08	73.08	80.39
Sound	Sound Pressure	Cooling	dB(A)	68	69	69
		Heating	dB(A)	70	71	71
	Sound Power		dB(A)	90	91	91
External Dimension	Net Weight		kg	211 x 1 + 332 x 2	211 x 1 + 332 x 2	274 x 1 + 332 x 2
	Shipping Weight		kg	225 x 1 + 349 x 2	225 x 1 + 349 x 2	291 x 1 + 349 x 2
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 3
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM090ANPKH×4 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM090ANPKH×5 + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM680AXVGGR1EU	AM700AXVGGR1EU	AM720AXVGGR1EU
				AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	68	70	72
	Capacity	Cooling(Rated)	kW	190.4	196.0	201.6
		Heating(Rated)	kW	190.4	191.2	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
Current	Current Input (Ducted)	Cooling(Rated)	A	135.87	144.86	145.86
		Heating(Rated)	A	114.12	115.03	132.60
	Current Input (Non-Ducted)	Cooling(Rated)	A	130.75	141.09	141.81
		Heating(Rated)	A	113.51	114.42	132.60
	Current	Minimum Ssc	MVA	25.6	26.5	27.9
		MCA	A	153.0	158.0	165.0
		MFA	A	175	175	200
Efficiency	SEER	Ducted	W/W	5.98	5.94	5.71
	SCOP		W/W	4.21	4.13	4.07
	ηs.c		%	236.2	234.6	225.4
	ηs.h		%	165.4	162.2	159.8
	SEER	Non_Ducted	W/W	6.36	5.86	5.83
	SCOP		W/W	4.17	4.04	4.00
	ηs.c		%	251.4	231.4	230.2
	ηs.h		%	163.8	158.6	157.0
	Pdesignh		kW	95.9	96.5	97.2
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 6
	Output		kW x n	(8.93 x 1) x 1 + (6.67 x 2) x 2	(8.93 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 2) x 3
	Model Name		-	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,400 x 1) x 1 + (1,100 x 2) x 2	(1,400 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	6	6	6
			Air Flow Rate	m³/min	313 x 1 + 365 x 2	313 x 1 + 365 x 2
	l/s	5,209 x 1 + 6,089 x 2		5,209 x 1 + 6,089 x 2	6,089 x 3	
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM680AXVGGR1EU	AM700AXVGGR1EU	AM720AXVGGR1EU
	Outdoor unit module 1			AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	10.5 x 1 + 14.0 x 2	10.5 x 1 + 14.0 x 2	14.0 x 3
			tCO ₂ e	80.39	80.39	87.70
Sound	Sound Pressure	Cooling	dB(A)	69	69	70
		Heating	dB(A)	71	71	72
	Sound Power		dB(A)	91	91	92
External Dimension	Net Weight		kg	274 x 1 + 332 x 2	274 x 1 + 332 x 2	332 x 3
	Shipping Weight		kg	291 x 1 + 349 x 2	291 x 1 + 349 x 2	349 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 829) x 3	(1,363 x 1,887 x 829) x 3	(1,363 x 1,887 x 829) x 3
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×4 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM090ANPKH×5 + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM740AXVGGR1EU	AM760AXVGGR1EU	AM780AXVGGR1EU		
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU		
				AM240AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU		
				AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU		
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 PUMP	HEAT PUMP	HEAT PUMP		
Performance	HP		HP	74	76	78		
	Capacity	Cooling(Rated)	kW	207.2	212.8	218.4		
		Heating(Rated)	kW	202.4	203.2	204.0		
		Heating(Max)	kW	233.1	239.4	245.7		
Maximum number of connectable indoor units			EA	64	64	64		
Total capacity of the connected Indoor Units		Min.	kW	103.6	106.4	109.2		
		Max.	kW	269.4	276.6	283.9		
Current	Current Input (Ducted)	Cooling(Rated)	A	154.85	163.84	172.83		
		Heating(Rated)	A	133.51	134.42	135.33		
	Current Input (Non-Ducted)	Cooling(Rated)	A	152.15	162.49	172.83		
		Heating(Rated)	A	133.51	134.42	135.33		
	Current	Minimum Ssc	MVA	28.8	29.7	30.6		
		MCA	A	170.0	175.0	180.0		
		MFA	A	200	200	200		
Efficiency	SEER	Ducted	W/W	5.64	5.56	5.40		
	SCOP		W/W	4.02	3.90	3.90		
	igs.c		%	222.6	219.4	213.0		
	igs.h		%	157.8	153.0	153.0		
	SEER	Non_Ducted	W/W	5.92	5.60	5.45		
	SCOP		W/W	4.05	3.90	3.90		
	igs.c		%	233.8	221.0	215.0		
	igs.h		%	159.0	153.0	153.0		
	Pdesignh		kW	97.8	98.4	99		
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate		
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate		
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube		
	Material	Fin	-	Al	Al	Al		
		Tube	-	Cu	Cu	Cu		
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion		
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6		
	Output		kW x n	(6.67 x 2) x 3	(6.67 x 2) x 3	(6.67 x 2) x 3		
	Model Name		-	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3		
	Oil	Type	-	PVE	PVE	PVE		
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 3	(1,100 x 2) x 3		
Fan	Type		-	Propeller	Propeller	Propeller		
	Discharge direction		-	Top	Top	Top		
	Quantity		EA	6	6	6		
			m³/min	365 x 3	365 x 3	365 x 3		
	Air Flow Rate		l/s	6,089 x 3	6,089 x 3	6,089 x 3		
			External Static Pressure	Max.	mmAq	8	8	8
					Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor		
	Output		W x n	(620 x 2) 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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes		

2. Specification

Premium energy efficiency

Model Name				AM740AXVGGR1EU	AM760AXVGGR1EU	AM780AXVGGR1EU
	Outdoor unit module 1			AM240AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
	Outdoor unit module 3			AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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 3	14.0 x 3
				tCO ₂ e	87.70	87.70
Sound	Sound Pressure	Cooling	dB(A)	70	70	70
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg	332 x 3	332 x 3	332 x 3
	Shipping Weight		kg	349 x 3	349 x 3	349 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 829) x 3	(1,363 x 1,887 x 829) x 3	(1,363 x 1,887 x 829) x 3
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDPKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDPKH×6 + AM112ANLDPKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANHPKH + AM056ANHPKH×2 + AM090ANHPKH	18HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM056ANHPKH×2 + AM090ANHPKH×2 + AM128ANHPKH
10HP	AM056ANHPKH×2 + AM090ANHPKH×2	20HP	AM028ANHPKH + AM056ANHPKH×2 + AM090ANHPKH×4 + AM128ANHPKH
12HP	AM028ANHPKH×2 + AM056ANHPKH×2 + AM090ANHPKH×2	22HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM128ANHPKH
14HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM128ANHPKH	24HP	AM071ANHPKH + AM128ANHPKH×2 + AM128ANHPKH×3
16HP	AM028ANHPKH + AM056ANHPKH + AM090ANHPKH×3 + AM128ANHPKH	26HP	AM071ANHPKH + AM128ANHPKH + AM128ANHPKH×4

2. Specification

Premium energy efficiency

Model Name				AM800AXVGGR1EU	AM820AXVGGR1EU	AM840AXVGGR1EU
				AM100AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU
				AM200AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
Outdoor unit module 4				AM260AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	80	82	84
	Capacity	Cooling(Rated)	kW	224.0	229.6	235.2
		Heating(Rated)	kW	219.2	229.6	230.4
		Heating(Max)	kW	252.0	258.3	264.6
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	112.0	114.8	117.6
		Max.	kW	291.2	298.5	305.8
Current	Current Input (Ducted)	Cooling(Rated)	A	160.83	161.83	170.82
		Heating(Rated)	A	126.44	144.01	144.92
	Current Input (Non-Ducted)	Cooling(Rated)	A	154.93	155.65	165.99
		Heating(Rated)	A	125.25	143.43	144.34
	Current	Minimum Ssc	MVA	29.9	31.3	32.2
		MCA	A	179.2	186.2	191.2
		MFA	A	200	225	225
Efficiency	SEER	Ducted	W/W	6.18	6.23	6.37
	SCOP		W/W	4.26	4.27	4.38
	igs.c		%	244.2	246.2	251.8
	igs.h		%	167.4	167.8	172.2
	SEER	Non_Ducted	W/W	6.39	6.46	6.44
	SCOP		W/W	4.16	4.17	4.19
	igs.c		%	252.6	255.4	254.6
	igs.h		%	163.4	163.8	164.6
	Pdesignh		kW	113.4	114.1	114.7
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment			-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 7	Inverter Scroll x 7
	Output		kW x n	(6.67 x 1) x 1 + (8.93 x 1) x 1 +	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
Initial charge		cc x n	(1,100 x 1) x 1 + (1,400 x 1) x 1 + (1,100 x 2) x 2	(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		m³/min	181 x 1 + 313 x 1 + 365 x 2	181 x 1 + 365 x 3	181 x 1 + 365 x 3
			l/s	3,019 x 1 + 5,209 x 1 + 6,089 x 2	3,019 x 1 + 6,089 x 3	3,019 x 1 + 6,089 x 3
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM800AXVGGR1EU	AM820AXVGGR1EU	AM840AXVGGR1EU
	Outdoor unit module 1			AM100AXVGGR/EU	AM100AXVGGR/EU	AM100AXVGGR/EU
	Outdoor unit module 2			AM200AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
Piping Connections	Outdoor unit module 4			AM260AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 10.5 x 1 + 14.0 x 2	7.0 x 1 + 14.0 x 3	7.0 x 1 + 14.0 x 3
Sound			tCO ₂ e	95.00	102.31	102.31
	Sound Pressure	Cooling	dB(A)	69	70	70
		Heating	dB(A)	71	72	72
	Sound Power		dB(A)	91	92	92
External Dimension	Net Weight		kg	211 x 1 + 274 x 1 + 332 x 2	211 x 1 + 332 x 3	211 x 1 + 332 x 3
	Shipping Weight		kg	225 x 1 + 291 x 1 + 349 x 2	225 x 1 + 349 x 3	225 x 1 + 349 x 3
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM860AXVGGR1EU	AM880AXVGGR1EU	AM900AXVGGR1EU
				AM100AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
				AM240AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
				AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
Outdoor unit module 4				AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	86	88	90
	Capacity	Cooling(Rated)	kW	240.8	246.4	252.0
		Heating(Rated)	kW	231.2	232.0	237.6
		Heating(Max)	kW	270.9	277.2	283.5
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	120.4	123.2	126.0
		Max.	kW	313.0	320.3	327.6
Current	Current Input (Ducted)	Cooling(Rated)	A	179.81	188.80	192.08
		Heating(Rated)	A	145.83	146.74	149.70
	Current Input (Non-Ducted)	Cooling(Rated)	A	176.33	186.67	190.57
		Heating(Rated)	A	145.25	146.16	149.58
	Current	Minimum Ssc	MVA	33.1	34.0	34.6
		MCA	A	196.2	201.2	205.0
		MFA	A	225	225	225
Efficiency	SEER	Ducted	W/W	6.17	6.26	6.06
	SCOP		W/W	4.32	4.27	4.21
	ηs.c		%	243.8	247.4	239.4
	ηs.h		%	169.8	167.8	165.4
	SEER	Non_Ducted	W/W	6.40	6.10	6.07
	SCOP		W/W	4.16	4.13	4.09
	ηs.c		%	253.0	241.0	239.8
	ηs.h		%	163.4	162.2	160.6
	Pdesignh		kW	115.3	115.9	118.7
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 7
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	7	7	7
			Air Flow Rate		m³/min	181 x 1 + 365 x 3
			l/s	3,019 x 1 + 6,089 x 3	3,019 x 1 + 6,089 x 3	3,260 x 1 + 6,089 x 3
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3
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			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM860AXVGGR1EU	AM880AXVGGR1EU	AM900AXVGGR1EU
	Outdoor unit module 1			AM100AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
	Outdoor unit module 3			AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
Piping Connections	Outdoor unit module 4			AM260AXVGGR/EU	AM260AXVGGR/EU	AM260AXVGGR/EU
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0 x 1 + 14.0 x 3	7.0 x 1 + 14.0 x 3	7.0 x 1 + 14.0 x 3
Sound	Sound Pressure	Cooling	dB(A)	70	70	70
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	92	92	92
			tCO ₂ e	102.31	102.31	102.31
External Dimension	Net Weight		kg	211 x 1 + 332 x 3	211 x 1 + 332 x 3	211 x 1 + 332 x 3
	Shipping Weight		kg	225 x 1 + 349 x 3	225 x 1 + 349 x 3	225 x 1 + 349 x 3
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM920AXVGGR1EU	AM940AXVGGR1EU	AM960AXVGGR1EU
				AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
				AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
Outdoor unit module 4				AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	92	94	96
	Capacity	Cooling(Rated)	kW	257.6	263.2	268.8
		Heating(Rated)	kW	257.6	258.4	268.8
		Heating(Max)	kW	289.8	296.1	302.4
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	128.8	131.6	134.4
		Max.	kW	334.9	342.2	349.4
Current	Current Input (Ducted)	Cooling(Rated)	A	184.49	193.48	194.48
		Heating(Rated)	A	158.32	159.23	176.80
	Current Input (Non-Ducted)	Cooling(Rated)	A	178.02	188.36	189.08
		Heating(Rated)	A	157.71	158.62	176.80
	Current	Minimum Ssc	MVA	34.9	35.8	37.2
		MCA	A	208.0	213.0	220.0
MFA		A	250	250	250	
Efficiency	SEER	Ducted	W/W	5.88	5.82	5.79
	SCOP		W/W	4.16	4.12	4.07
	ηs.c		%	232.2	229.8	228.6
	ηs.h		%	163.4	161.8	159.8
	SEER	Non_Ducted	W/W	6.04	6.11	5.75
	SCOP		W/W	4.06	4.09	4.00
	ηs.c		%	238.6	241.4	227.0
	ηs.h		%	159.4	160.6	157.0
	Pdesignh		kW	128.3	128.9	129.6
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment			-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 8
	Output		kW x n	(8.93 x 1) x 1 + (6.67 x 2) x 3	(8.93 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 2) x 4
	Model Name		-	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 4
	Oil	Type	-	PVE	PVE	PVE
Initial charge		cc x n	(1,400 x 1) x 1 + (1,100 x 2) x 3	(1,400 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 2) x 4	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	8	8	8
			Air Flow Rate	m³/min	313 x 1 + 365 x 3	313 x 1 + 365 x 3
	l/s	5,209 x 1 + 6,089 x 3		5,209 x 1 + 6,089 x 3	6,089 x 4	
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 4	(620 x 2) x 4	(620 x 2) x 4
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	25.40 (1)	25.40 (1)	25.40 (1)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	44.45 (1-3/4)	44.45 (1-3/4)	44.45 (1-3/4)
Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

2. Specification

Premium energy efficiency

Model Name				AM920AXVGGR1EU	AM940AXVGGR1EU	AM960AXVGGR1EU
	Outdoor unit module 1			AM200AXVGGR/EU	AM200AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 3			AM240AXVGGR/EU	AM240AXVGGR/EU	AM240AXVGGR/EU
Piping Connections	Outdoor unit module 4			AM240AXVGGR/EU	AM260AXVGGR/EU	AM240AXVGGR/EU
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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-IDU)	Max.	m	110	110	110
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	10.5 x 1 + 14.0 x 3	10.5 x 1 + 14.0 x 3	14.0 x 4
Sound			tCO ₂ e	109.62	109.62	116.93
	Sound Pressure	Cooling	dB(A)	70	70	71
		Heating	dB(A)	72	72	73
	Sound Power		dB(A)	92	92	93
External Dimension	Net Weight		kg	274 x 1 + 332 x 3	274 x 1 + 332 x 3	332 x 4
	Shipping Weight		kg	291 x 1 + 349 x 3	291 x 1 + 349 x 3	349 x 4
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLKH×6 + AM112ANLKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH	18HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
10HP	AM056ANPKH×2 + AM090ANPKH×2	20HP	AM028ANPKH + AM056ANPKH×2 + AM090ANPKH×2 + AM128ANPKH
12HP	AM028ANPKH×2 + AM056ANPKH×2 + AM090ANPKH×2	22HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH
14HP	AM028ANPKH + AM056ANPKH + AM056ANPKH + AM071ANPKH + AM090ANPKH + AM128ANPKH	24HP	AM071ANPKH + AM128ANPKH×2 + AM128ANPKH×3
16HP	AM028ANPKH + AM056ANPKH + AM090ANPKH×3 + AM128ANPKH	26HP	AM071ANPKH + AM128ANPKH + AM128ANPKH×4

2. Specification

Premium energy efficiency

Model Name				AM980AXVGGR1EU	
				AM240AXVGGR/EU	
				AM240AXVGGR/EU	
				AM240AXVGGR/EU	
Outdoor unit module 4				AM260AXVGGR/EU	
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	
Mode			-	HEAT PUMP	
Performance	HP		HP	98	
	Capacity	Cooling(Rated)	kW	274.4	
		Heating(Rated)	kW	269.6	
		Heating(Max)	kW	308.7	
Maximum number of connectable indoor units			EA	64	
Total capacity of the connected Indoor Units		Min.	kW	137.2	
		Max.	kW	356.7	
Current	Current Input (Ducted)	Cooling(Rated)	A	203.47	
		Heating(Rated)	A	177.71	
	Current Input (Non-Ducted)	Cooling(Rated)	A	199.42	
		Heating(Rated)	A	177.71	
	Current	Minimum Ssc	MVA	38.1	
		MCA	A	225.0	
		MFA	A	250	
Efficiency	SEER	Ducted	W/W	5.62	
	SCOP		W/W	4.02	
	ηs.c		%	221.8	
	ηs.h		%	157.8	
	SEER	Non_Ducted	W/W	5.73	
	SCOP		W/W	3.98	
	ηs.c		%	226.2	
	ηs.h		%	156.2	
	Pdesignh		kW	130.2	
Casing	Material	Body	-	GI Steel Plate	
		Base	-	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	
	Material	Fin	-	Al	
		Tube	-	Cu	
	Fin Treatment			-	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 8	
	Output		kW x n	(6.67 x 2) x 4	
	Model Name		-	(DS4GR7066FV* x 2) x 4	
	Oil	Type	-	PVE	
		Initial charge	cc x n	(1,100 x 2) x 4	
Fan	Type		-	Propeller	
	Discharge direction		-	Top	
	Quantity		EA	8	
	Air Flow Rate		m³/min	365 x 4	
			l/s	6,089 x 4	
	External Static Pressure	Max.	mmAq	8	
			Pa	80	
Fan Motor	Type		-	BLDC Motor	
	Output		W x n	(620 x 2) x 4	
Piping Connections	Liquid Pipe		Type	Braze connection	
			Φ, mm (inch)	25.40 (1)	
	Gas Pipe		Type	Braze connection	
			Φ, mm (inch)	53.98 (2-1/8)	
	High pressure Gas Pipe(HR Only)		Type	Braze connection	
			Φ, mm (inch)	44.45 (1-3/4)	
Heat Insulation			-	Both liquid and gas pipes	

2. Specification

Premium energy efficiency

Model Name				AM980AXVGGR1EU
	Outdoor unit module 1			AM240AXVGGR/EU
	Outdoor unit module 2			AM240AXVGGR/EU
	Outdoor unit module 3			AM240AXVGGR/EU
	Outdoor unit module 4			AM260AXVGGR/EU
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90
	Total piping length (System)	Max.	m	1,000
	Level difference (ODU in highest position)	Max.	m	110
	Level difference	Max.	m	110
	Level difference (IDU-IDU)	Max.	m	40
Wiring connections	Transmission	Min.	mm ²	0.75
	Cable	Remark	-	F1, F2
	Power supply intake		-	Both indoor and outdoor unit
Refrigerant	Type		-	R410A
	Factory Charging		kg	14.0 x 4
			tCO ₂ e	116.93
Sound	Sound Pressure	Cooling	dB(A)	71
		Heating	dB(A)	73
	Sound Power		dB(A)	93
External Dimension	Net Weight		kg	332 x 4
	Shipping Weight		kg	349 x 4
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 4
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 829) x 4
Operating Temp. Range	Cooling		°C	-5 ~ 50
	Heating		°C	-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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination

* Ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM056ANHPKH×4	18HP	AM056ANHPKH×4 + AM071ANHPKH×4
10HP	AM071ANHPKH×4	20HP	AM071ANHPKH×8
12HP	AM056ANHPKH×6	22HP	AM071ANHPKH×4 + AM090ANHPKH×4
14HP	AM056ANHPKH×1 + AM071ANHPKH×5	24HP	AM071ANHPKH×1 + AM090ANLDKH×7
16HP	AM056ANHPKH×2 + AM090ANHPKH×4	26HP	AM090ANLDKH×6 + AM112ANLDKH×2

* Non-ducted

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM028ANHPKH + AM056ANHPKH×2 + AM090ANHPKH	18HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM056ANHPKH×2 + AM090ANHPKH×2 + AM071ANHPKH + AM090ANHPKH×4 + AM071ANHPKH
10HP	AM056ANHPKH×2 + AM090ANHPKH×2	20HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM090ANHPKH×5 + AM071ANHPKH×2
12HP	AM028ANHPKH×2 + AM056ANHPKH×2 + AM090ANHPKH×2	22HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM071ANHPKH
14HP	AM028ANHPKH + AM056ANHPKH + AM056ANHPKH + AM071ANHPKH + AM090ANHPKH + AM071ANHPKH	24HP	AM071ANHPKH + AM071ANHPKH×2 + AM028ANHPKH×3
16HP	AM028ANHPKH + AM056ANHPKH + AM090ANHPKH×3 + AM071ANHPKH	26HP	AM071ANHPKH + AM071ANHPKH + AM028ANHPKH×4

3. Electric Characteristics

Premium energy efficiency

Capacity		Model Name	Power Supply		Voltage Range		Running Current [A]		Current [A]		ODU Fan Motor	
HP	kW		Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080AXVGGR/EU	50	380-415	342	456	11.44	9.09	18.0	25	0.63	7.3
10	28.0	AM100AXVGGR/EU	50	380-415	342	456	15.97	11.41	21.2	32	0.63	7.3
12	33.6	AM120AXVGGR/EU	50	380-415	342	456	19.25	14.37	25.0	32	0.63	7.3
14	40.0	AM140AXVGGR/EU	50	380-415	342	456	25.44	17.06	27.0	32	1.24	14.6
16	45.0	AM160AXVGGR/EU	50	380-415	342	456	26.96	19.35	32.0	40	1.24	14.6
18	50.4	AM180AXVGGR/EU	50	380-415	342	456	26.79	21.14	39.2	50	1.24	14.6
20	56.0	AM200AXVGGR/EU	50	380-415	342	456	38.63	25.72	43.0	63	1.24	14.6
22	61.6	AM220AXVGGR/EU	50	380-415	342	456	44.15	27.29	46.0	63	1.24	14.6
24	67.2	AM240AXVGGR/EU	50	380-415	342	456	48.62	44.20	55.0	63	1.24	14.6
26	72.8	AM260AXVGGR/EU	50	380-415	342	456	57.61	45.11	60.0	75	1.24	14.6
28	78.4	AM280AXVGGR1EU	50	380-415	342	456	42.76	32.55	60.4	75	1.87	21.9
30	84.0	AM300AXVGGR1EU	50	380-415	342	456	54.60	37.13	64.2	75	1.87	21.9
32	89.6	AM320AXVGGR1EU	50	380-415	342	456	60.06	53.29	73.0	80	1.87	21.9
34	95.2	AM340AXVGGR1EU	50	380-415	342	456	64.59	55.61	76.2	90	1.87	21.9
36	100.8	AM360AXVGGR1EU	50	380-415	342	456	73.58	56.52	81.2	90	1.87	21.9
38	106.4	AM380AXVGGR1EU	50	380-415	342	456	76.86	59.48	85.0	100	1.87	21.9
40	112.0	AM400AXVGGR1EU	50	380-415	342	456	77.26	51.44	86.0	100	2.48	29.2
42	117.6	AM420AXVGGR1EU	50	380-415	342	456	75.41	65.34	94.2	125	2.48	29.2
44	123.2	AM440AXVGGR1EU	50	380-415	342	456	87.25	69.92	98.0	125	2.48	29.2
46	128.8	AM460AXVGGR1EU	50	380-415	342	456	96.24	70.83	103.0	125	2.48	29.2
48	134.4	AM480AXVGGR1EU	50	380-415	342	456	97.24	88.40	110.0	125	2.48	29.2
50	140.0	AM500AXVGGR1EU	50	380-415	342	456	106.23	89.31	115.0	150	2.48	29.2
52	145.6	AM520AXVGGR1EU	50	380-415	342	456	115.22	90.22	120.0	150	2.48	29.2
54	151.2	AM540AXVGGR1EU	50	380-415	342	456	103.22	81.33	119.2	150	3.11	36.5
56	156.8	AM560AXVGGR1EU	50	380-415	342	456	112.21	82.24	124.2	150	3.11	36.5
58	162.4	AM580AXVGGR1EU	50	380-415	342	456	113.21	99.81	131.2	150	3.11	36.5
60	168.0	AM600AXVGGR1EU	50	380-415	342	456	122.20	100.72	136.2	150	3.11	36.5
62	173.6	AM620AXVGGR1EU	50	380-415	342	456	131.19	101.63	141.2	175	3.11	36.5
64	179.2	AM640AXVGGR1EU	50	380-415	342	456	134.47	104.59	145.0	175	3.11	36.5
66	184.8	AM660AXVGGR1EU	50	380-415	342	456	124.03	109.54	149.2	175	3.72	43.8
68	190.4	AM680AXVGGR1EU	50	380-415	342	456	135.87	114.12	153.0	175	3.72	43.8
70	196.0	AM700AXVGGR1EU	50	380-415	342	456	144.86	115.03	158.0	175	3.72	43.8
72	201.6	AM720AXVGGR1EU	50	380-415	342	456	145.86	132.60	165.0	200	3.72	43.8
74	207.2	AM740AXVGGR1EU	50	380-415	342	456	154.85	133.51	170.0	200	3.72	43.8
76	212.8	AM760AXVGGR1EU	50	380-415	342	456	163.84	134.42	175.0	200	3.72	43.8
78	218.4	AM780AXVGGR1EU	50	380-415	342	456	172.83	135.33	180.0	200	3.72	43.8
80	224.0	AM800AXVGGR1EU	50	380-415	342	456	160.83	126.44	179.2	200	4.35	51.1
82	229.6	AM820AXVGGR1EU	50	380-415	342	456	161.83	144.01	186.2	225	4.35	51.1
84	235.2	AM840AXVGGR1EU	50	380-415	342	456	170.82	144.92	191.2	225	4.35	51.1
86	240.8	AM860AXVGGR1EU	50	380-415	342	456	179.81	145.83	196.2	225	4.35	51.1
88	246.4	AM880AXVGGR1EU	50	380-415	342	456	188.80	146.74	201.2	225	4.35	51.1
90	252.0	AM900AXVGGR1EU	50	380-415	342	456	192.08	149.70	205.0	225	4.35	51.1
92	257.6	AM920AXVGGR1EU	50	380-415	342	456	184.49	158.32	208.0	250	4.96	58.4
94	263.2	AM940AXVGGR1EU	50	380-415	342	456	193.48	159.23	213.0	250	4.96	58.4
96	268.8	AM960AXVGGR1EU	50	380-415	342	456	194.48	176.80	220.0	250	4.96	58.4
98	274.4	AM980AXVGGR1EU	50	380-415	342	456	203.47	177.71	225.0	250	4.96	58.4



NOTE

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

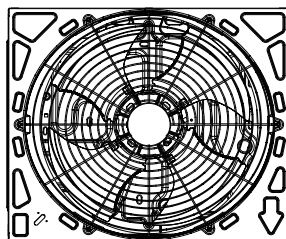
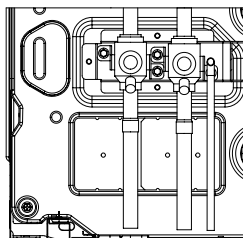
4. Dimensional Drawing

Outdoor unit

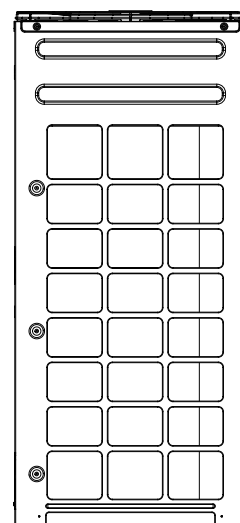
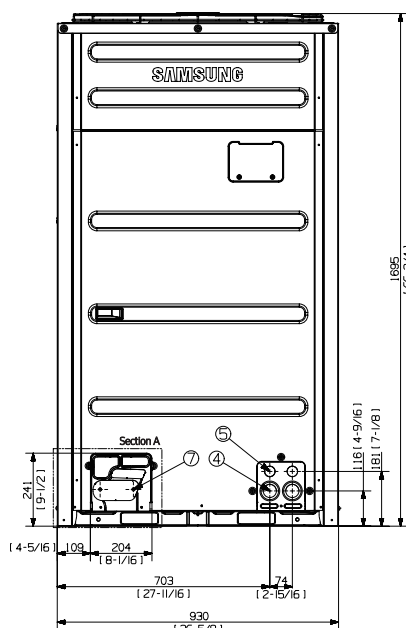
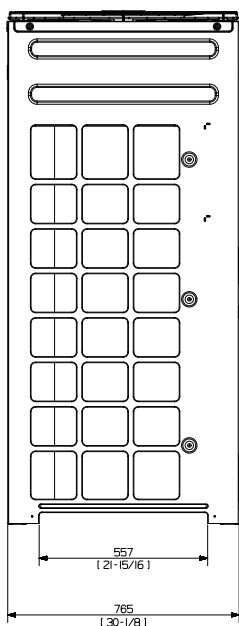
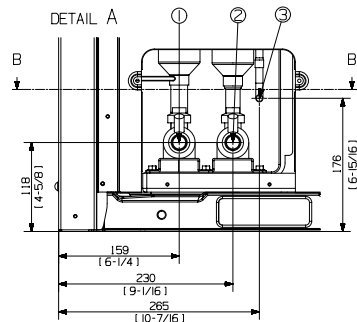
• AM080AXVGGR/EU, AM100AXVGGR/EU, AM120AXVGGR/EU

Unit: mm (inches)

SECTION B-B



DETAIL A

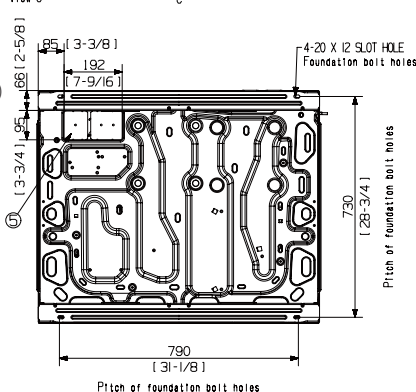


NOTE

- Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
- Item 3-7: Knock-out hole
- View C indicate the dimension of knock-out hole (bottom)
- Pipe [Ø, 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.	5	Communication wiring conduit	Ø34
2	High Pressure Ref. pipe	See NOTE 4.	6	Knock-out Hole for Ref. Piping (bottom)	
3	Liquid Ref. pipe	See NOTE 4.	7	Knock-out Hole for Ref. Piping (front)	
4	Power wiring conduit	Ø44			

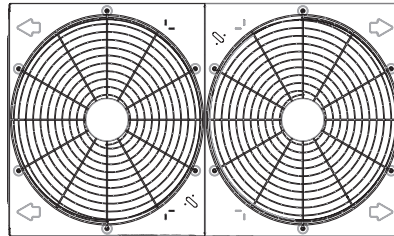
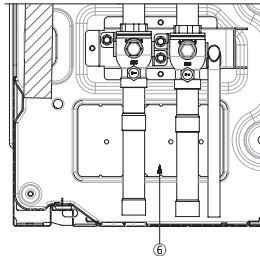
4. Dimensional Drawing

Outdoor unit

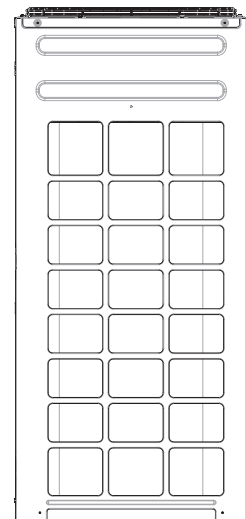
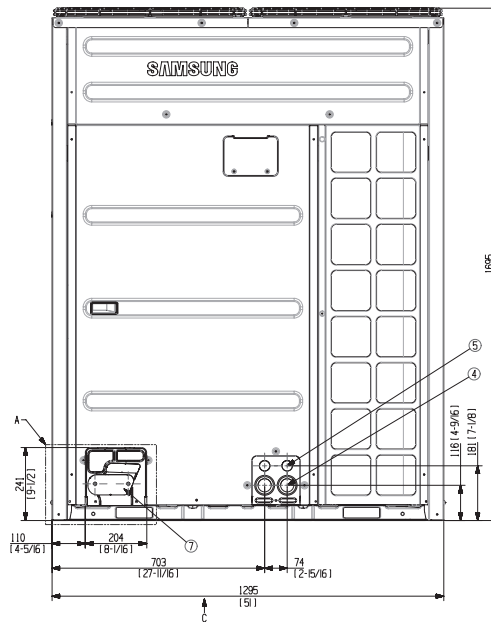
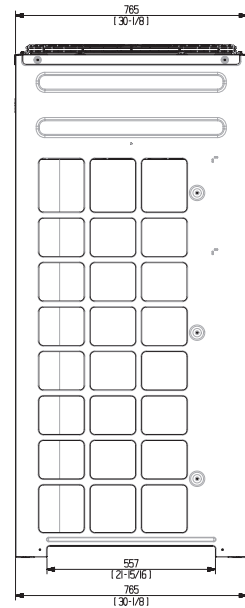
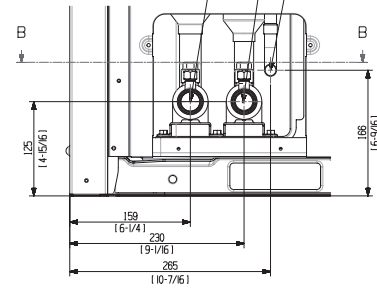
• AM140/160/180/200/220/240/260AXVGGR/EU

Unit: mm (inches)

SECTION B-B



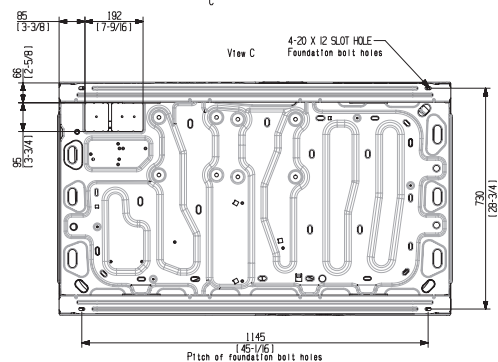
DETAIL A
SCALE 1:2



NOTE

- 1 Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
- 2 Item 3-7: Knock-out hole
- 3 View C indicate the dimension of knock-out hole (bottom)
- 4 Pipe Ø, 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)

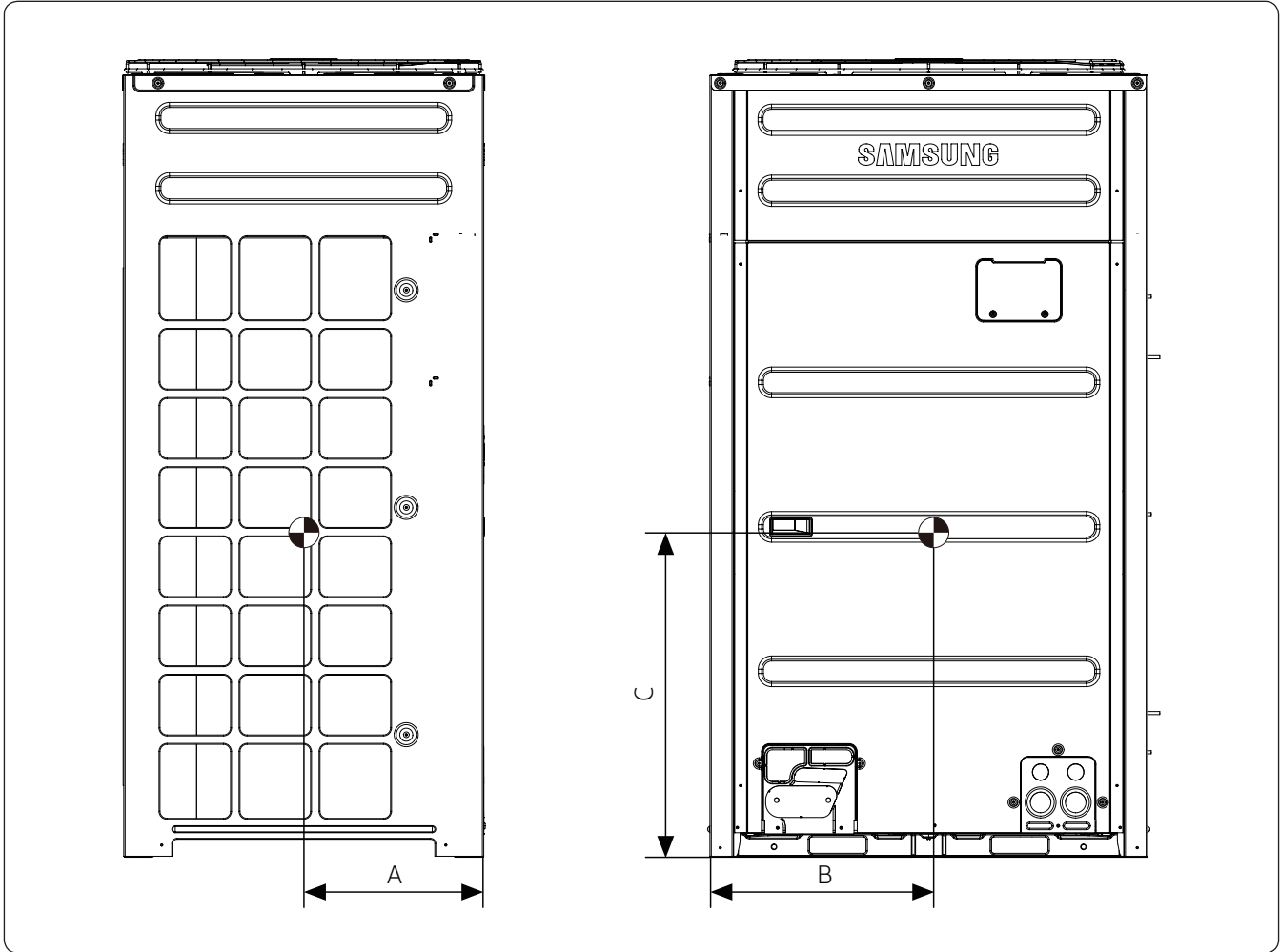


NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Low Pttessure Gas Ref.pipe	See NOTE 4.	5	Communication wiring conduit	
2	High Pressure Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (bottom)	
3	Liquid Ref.pipe	See NOTE 4.	7	Knock-out Hole for Ref.Piping (front)	
4	Power wiring conduit	Ø44			

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

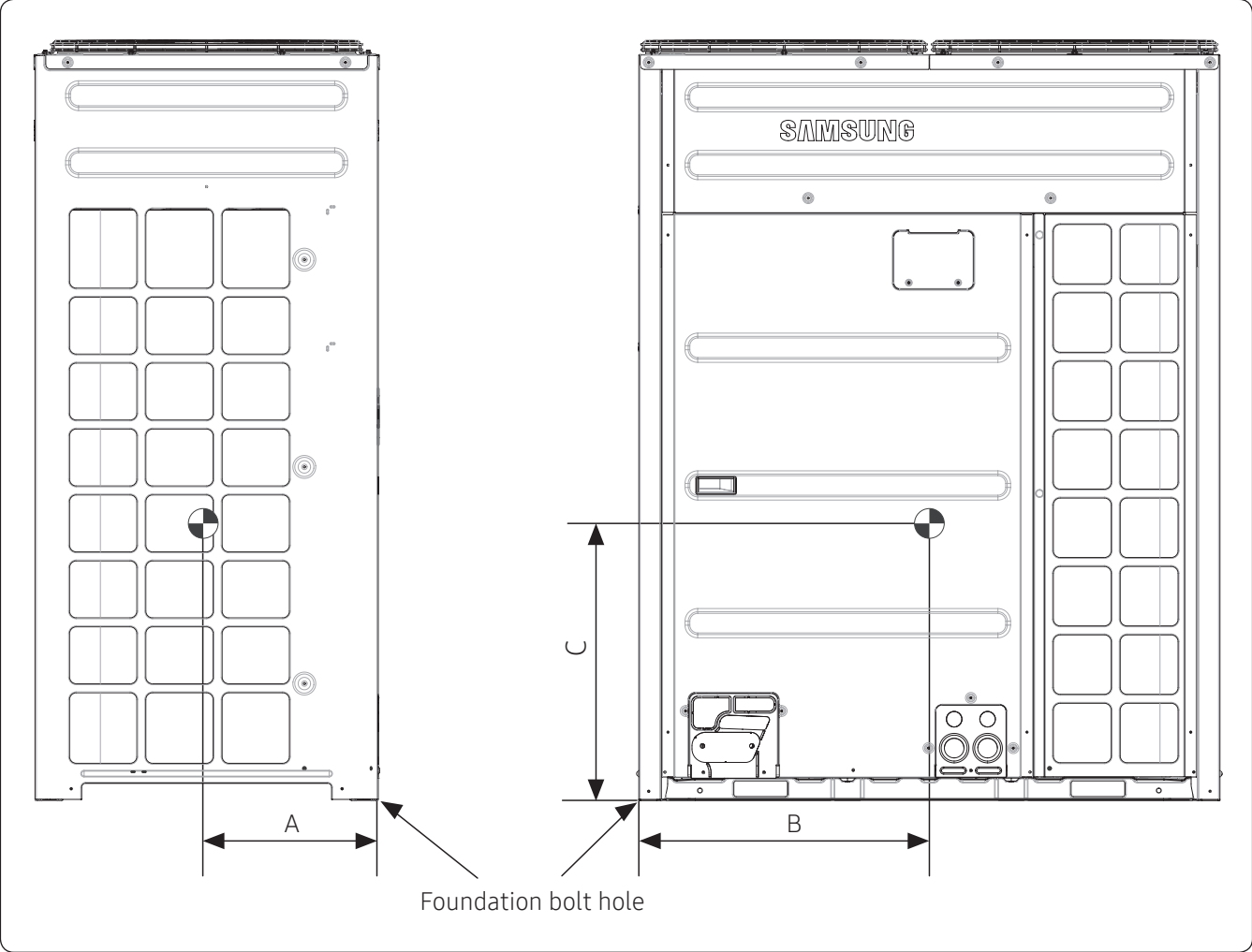


Model	A	B	C
AM080AXVGGR/EU	358 [14 - 1/8]	463 [18 - 1/4]	715 [28 - 1/8]
AM100AXVGGR/EU AM120AXVGGR/EU	351 [13 - 13/16]	461 [18 - 1/8]	694 [27 - 5/16]

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

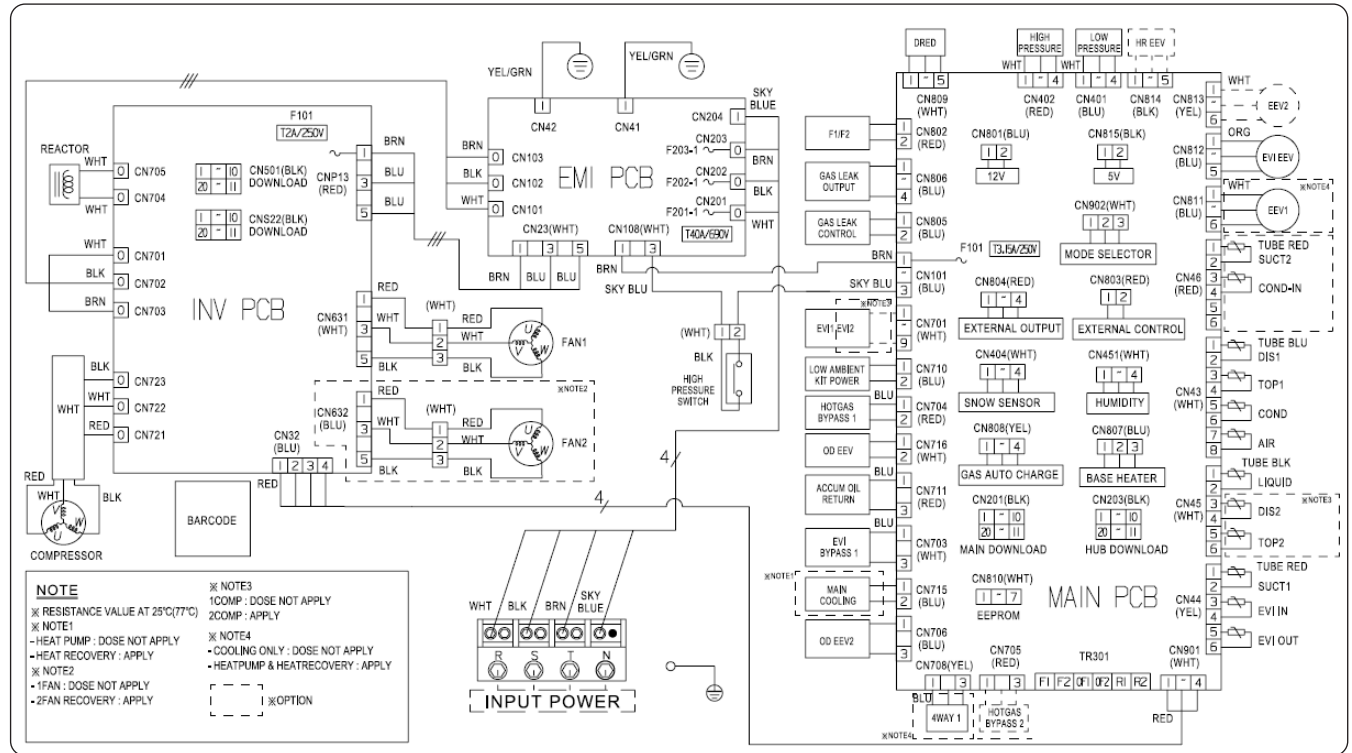


Model	A	B	C
AM140AXVGGR/EU	342[13 - 7/16]	500[19 - 11/16]	731[28 - 3/4]
AM160AXVGGR/EU AM180AXVGGR/EU AM200AXVGGR/EU	345[13 - 9/16]	502[19 - 3/4]	719[28 - 5/16]
AM220AXVGGR/EU AM240AXVGGR/EU AM260AXVGGR/EU	324[12 - 3/4]	520[20 - 1/2]	678[26 - 11/16]

6. Electrical Wiring Diagrams

Outdoor unit

AM080~120AXVGGR/EU



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

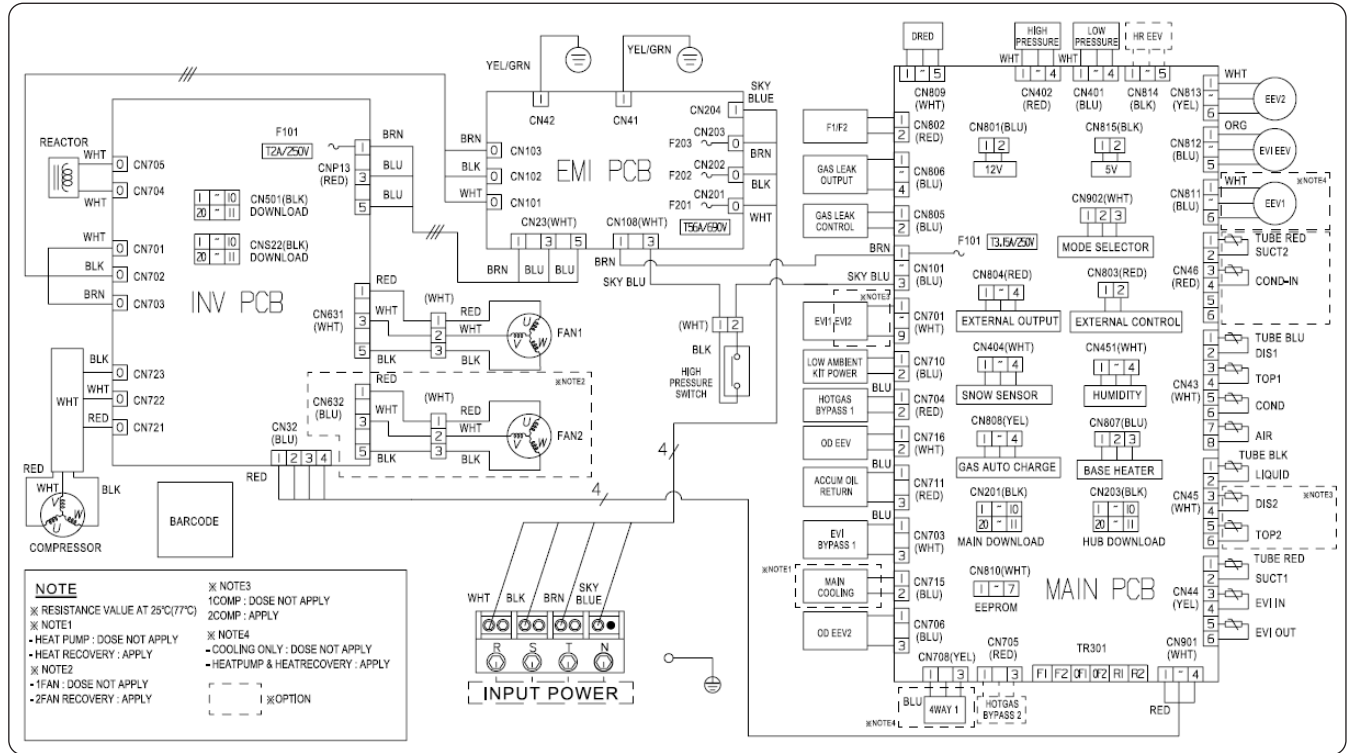
NOTE

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

6. Electrical Wiring Diagrams

Outdoor unit

AM140~160AXVGGR/EU



INV PCB	Printed circuit board (inverter)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)
EMI PCB	Printed circuit board (emi)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)
MAIN PCB	Printed circuit board (main)	SUCT1(10K)	Thermistor (Suction Temp.1_10kohm)
COMPRESSOR	Motor (compressor)	SUCT2(10K)	Thermistor (Suction Temp.2_10kohm)
FAN1	Motor (fan1)	SNOW SENSOR	SNOW SENSOR
FAN2	Motor (fan2)	AIR(10K)	Thermistor (Ambient Temp_10Kohm)
EVI V/V1	Solenoid valve (EVI1)	COND(10K)	Thermistor (Cond Out Temp_10Kohm)
EVI V/V2	Solenoid valve (EVI2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)
EVI EEV	Electronic expansion valve (EVI)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)
EEV1	Electronic expansion valve 1	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)
EEV2	Electronic expansion valve 2	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)
OD EEV V/V	Electronic expansion valve (Outdoor EEV)	LIQUID(10K)	Thermistor (Liquid Tube Temp_10Kohm)
HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)	F101	FUSE (INV PCB)
EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)	690V/56A	FUSE (EMI PCB)
ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
4WAY1 V/V	Solenoid valve (4 Way valve)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
MAIN COOLING	Solenoid valve (Main cooling)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)		

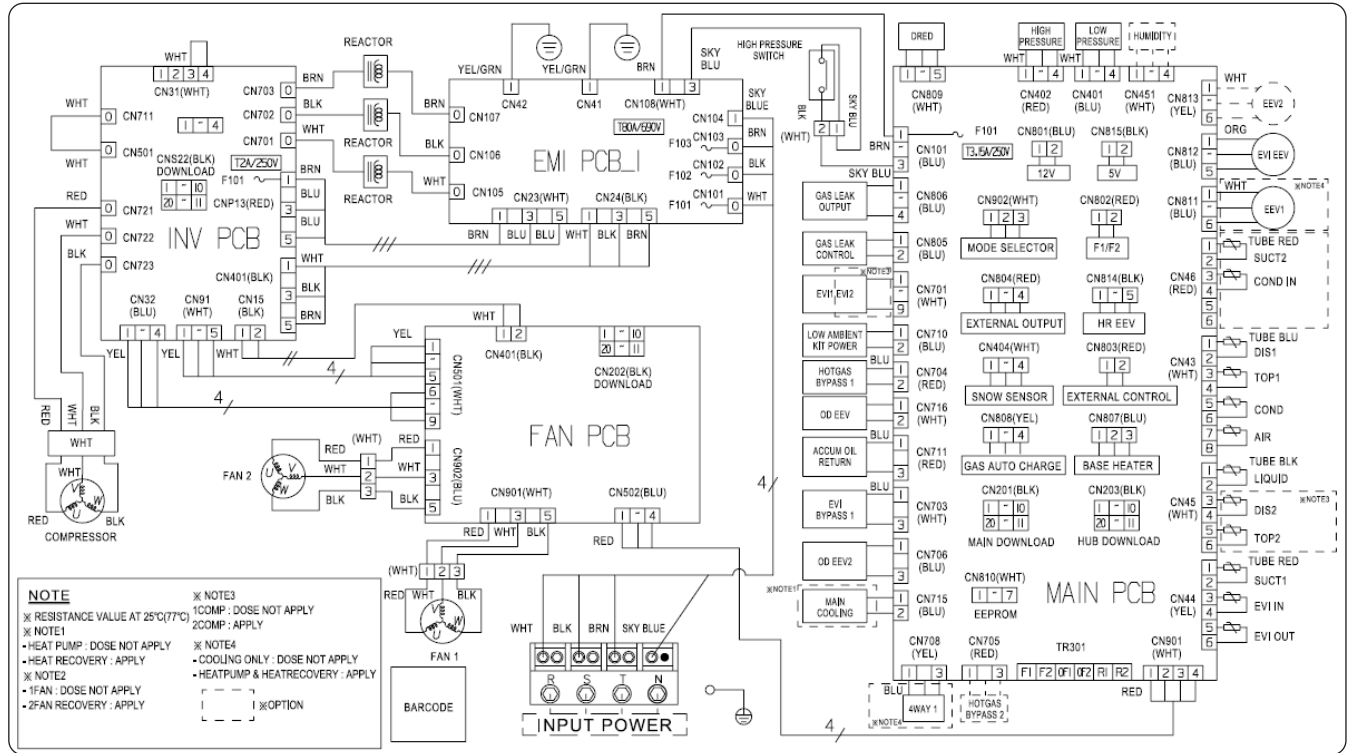
NOTE

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

6. Electrical Wiring Diagrams

Outdoor unit

AM180~200AXVGGR/EU



INV PCB	Printed circuit board (inverter)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)
EMI PCB1	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)
COMPRESSOR	Motor (compressor)	SNOW SENSOR	SNOW SENSOR
FAN1	Motor (fan1)	AIR(10K)	Thermistor (Ambient Temp_10Kohm)
FAN2	Motor (fan2)	COND(10K)	Thermistor (Cond Out Temp_10Kohm)
EVI V/V1	Solenoid valve (EVI1)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)
EVI V/V2	Solenoid valve (EVI2)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)
EVI EEV	Electronic expansion valve (EVI)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)
EEV1	Electronic expansion valve 1	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)
EEV2	Electronic expansion valve 2	LIQUID(10K)	Thermistor (Liquid Tube Temp_10Kohm)
HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)	F101	FUSE (INV PCB)
ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)	690V/80A	FUSE (EMI PCB)
4WAY1 V/V	Solenoid valve (4 Way valve)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
MAIN COOLING	Solenoid valve (Main cooling)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)

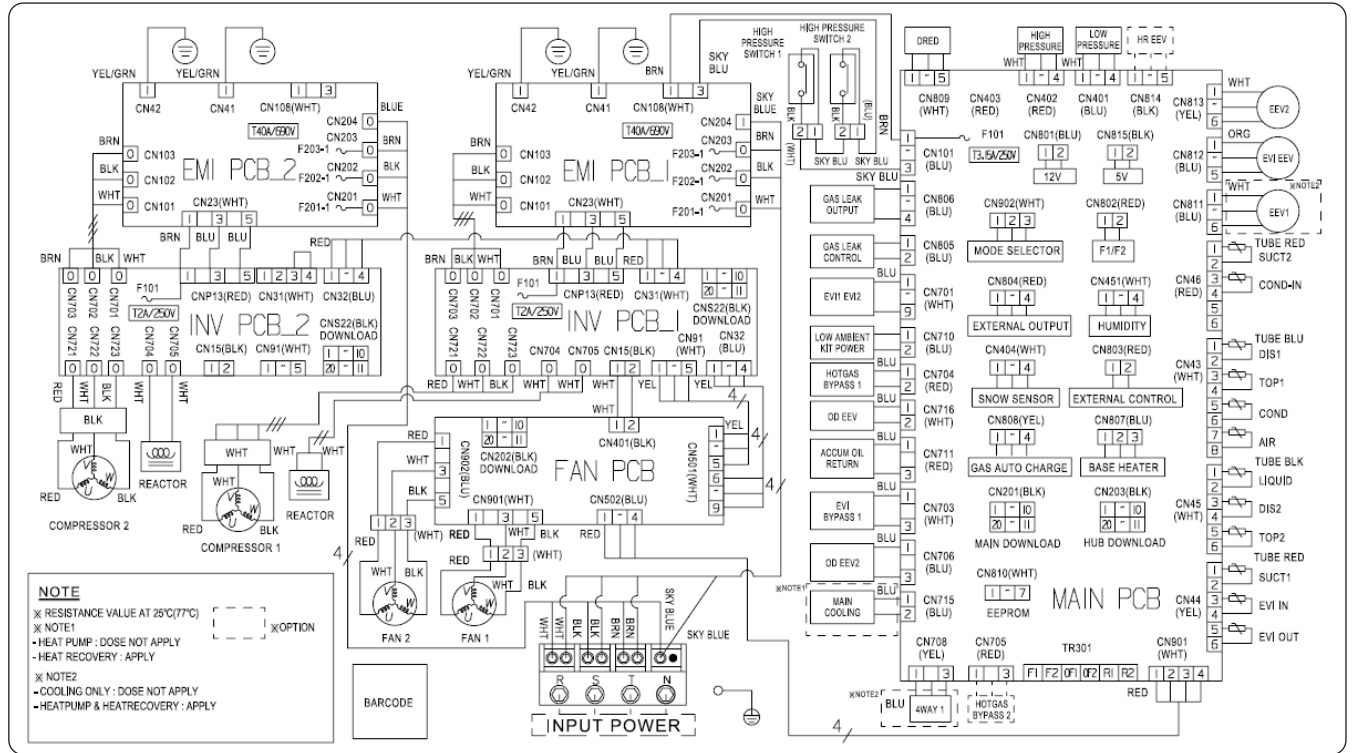
NOTE

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

6. Electrical Wiring Diagrams

Outdoor unit

AM220AXVGGR/EU



INV PCB1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1
INV PCB2	Printed circuit board (inverter2)	EEV2	Electronic expansion valve 2
EMI PCB1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)
EMI PCB2	Printed circuit board (emi2)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)
COMPRESSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Cond In Temp_10Kohm)
COMPRESSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Ambient Temp_10Kohm)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Cond Out Temp_10Kohm)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)
EVI V/V1	Solenoid valve (EVI1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)
EVI V/V2	Solenoid valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)
SNOW SENSOR	SNOW SENSOR	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
LIQUID(10K)	Thermistor (Liquid Tube Temp_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)	F101	FUSE (INV PCB)
EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)	690V/40A	FUSE (EMI PCB)
ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
4WAY1 V/V	Solenoid valve (4 Way valve)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
MAIN COOLING	Solenoid valve (Main cooling)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)

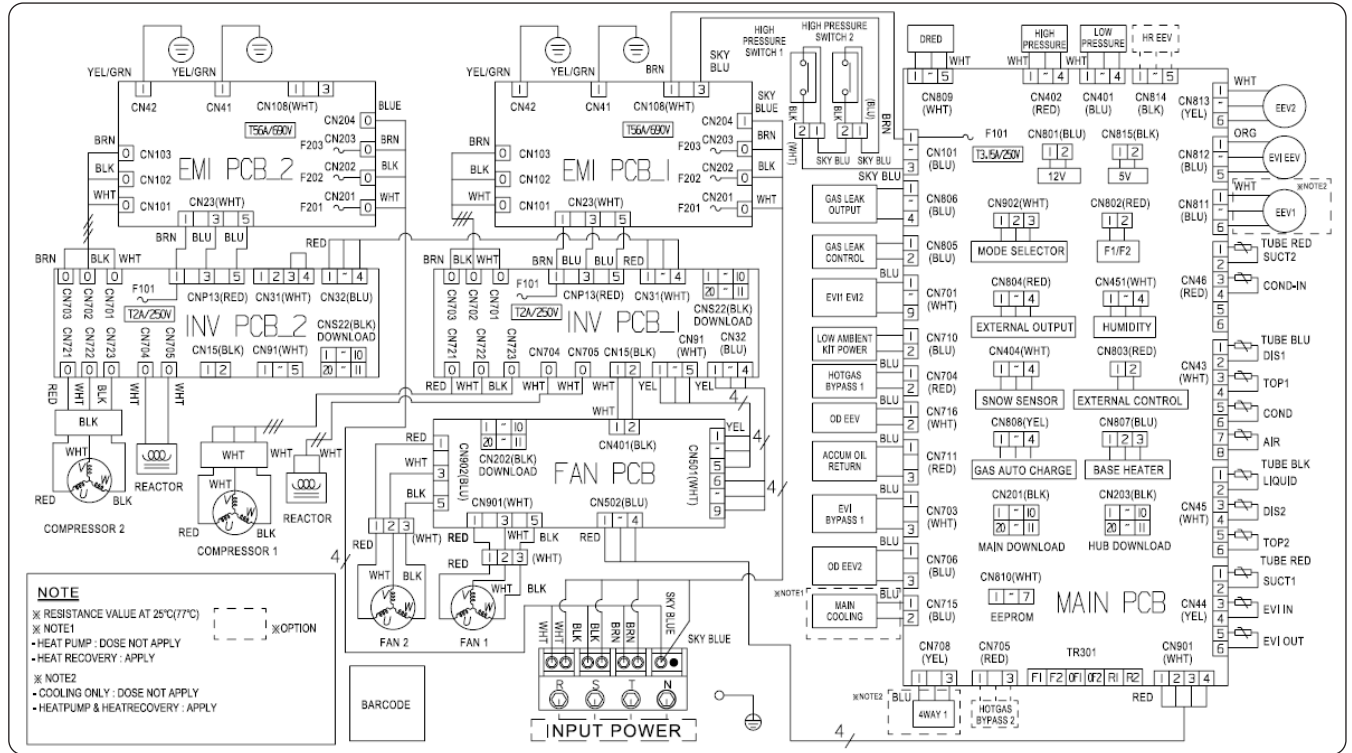
NOTE

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

6. Electrical Wiring Diagrams

Outdoor unit

AM240~260AXVGGR/EU



INV PCB1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1
INV PCB2	Printed circuit board (inverter2)	EEV2	Electronic expansion valve 2
EMI PCB1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)
EMI PCB2	Printed circuit board (emi2)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)
COMPRSSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Cond In Temp_10Kohm)
COMPRSSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Ambient Temp_10Kohm)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Cond Out Temp_10Kohm)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)
EVI V/V1	Solenoid valve (EVI1)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)
EVI V/V2	Solenoid valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)
SNOW SENSOR	SNOW SENSOR	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
LIQUID(10K)	Thermistor (Liquid Tube Temp_10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)	F101	FUSE (INV PCB)
EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)	690V/56A	FUSE (EMI PCB)
ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
4WAY1 V/V	Solenoid valve (4 Way valve)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
MAIN COOLING	Solenoid valve (Main cooling)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)

NOTE

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

7. Sound Data

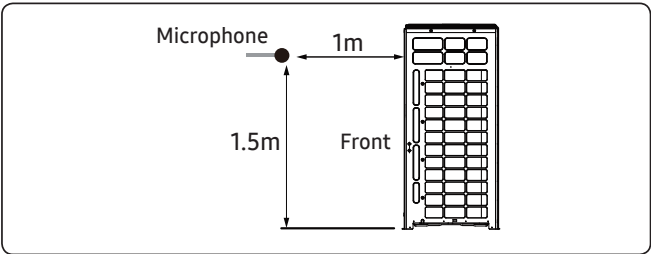
Summary

Capacity		Model Name	Sound Pressure dB(A)		Sound Power dB(A)
HP	kW		Cooling	Heating	
8	22.4	AM080AXVGGR/EU	53	58	75
10	28.0	AM100AXVGGR/EU	56	60	78
12	33.6	AM120AXVGGR/EU	61	63	81
14	40.0	AM140AXVGGR/EU	58	61	81
16	45.0	AM160AXVGGR/EU	58	61	81
18	50.4	AM180AXVGGR/EU	59	63	81
20	56.0	AM200AXVGGR/EU	61	63	84
22	61.6	AM220AXVGGR/EU	64	65	86
24	67.2	AM240AXVGGR/EU	65	67	87
26	72.8	AM260AXVGGR/EU	65	67	87
28	78.4	AM280AXVGGR1EU	61	65	83
30	84.0	AM300AXVGGR1EU	62	65	85
32	89.6	AM320AXVGGR1EU	65	68	87
34	95.2	AM340AXVGGR1EU	66	68	88
36	100.8	AM360AXVGGR1EU	66	68	88
38	106.4	AM380AXVGGR1EU	66	68	88
40	112.0	AM400AXVGGR1EU	64	66	87
42	117.6	AM420AXVGGR1EU	66	68	88
44	123.2	AM440AXVGGR1EU	66	68	89
46	128.8	AM460AXVGGR1EU	66	68	89
48	134.4	AM480AXVGGR1EU	68	70	90
50	140.0	AM500AXVGGR1EU	68	70	90
52	145.6	AM520AXVGGR1EU	68	70	90
54	151.2	AM540AXVGGR1EU	67	69	89
56	156.8	AM560AXVGGR1EU	67	69	89
58	162.4	AM580AXVGGR1EU	68	70	90
60	168.0	AM600AXVGGR1EU	68	70	90
62	173.6	AM620AXVGGR1EU	68	70	90
64	179.2	AM640AXVGGR1EU	69	71	91
66	184.8	AM660AXVGGR1EU	69	71	91
68	190.4	AM680AXVGGR1EU	69	71	91
70	196.0	AM700AXVGGR1EU	69	71	91
72	201.6	AM720AXVGGR1EU	70	72	92
74	207.2	AM740AXVGGR1EU	70	72	92
76	212.8	AM760AXVGGR1EU	70	72	92
78	218.4	AM780AXVGGR1EU	70	72	92
80	224.0	AM800AXVGGR1EU	69	71	91
82	229.6	AM820AXVGGR1EU	70	72	92
84	235.2	AM840AXVGGR1EU	70	72	92
86	240.8	AM860AXVGGR1EU	70	72	92
88	246.4	AM880AXVGGR1EU	70	72	92
90	252.0	AM900AXVGGR1EU	70	72	92
92	257.6	AM920AXVGGR1EU	70	72	92
94	263.2	AM940AXVGGR1EU	70	72	92
96	268.8	AM960AXVGGR1EU	71	73	93
98	274.4	AM980AXVGGR1EU	71	73	93

7. Sound Data

Sound Pressure level

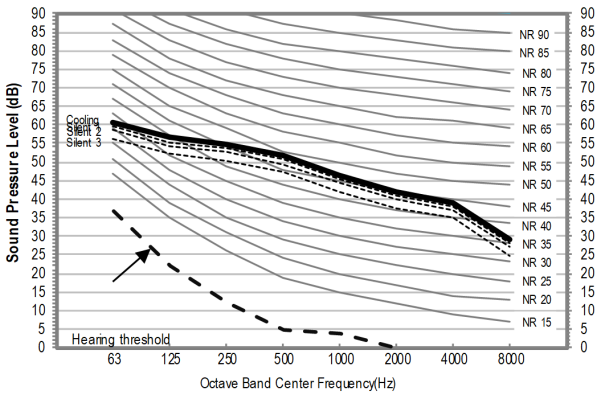
Unit: dB(A)



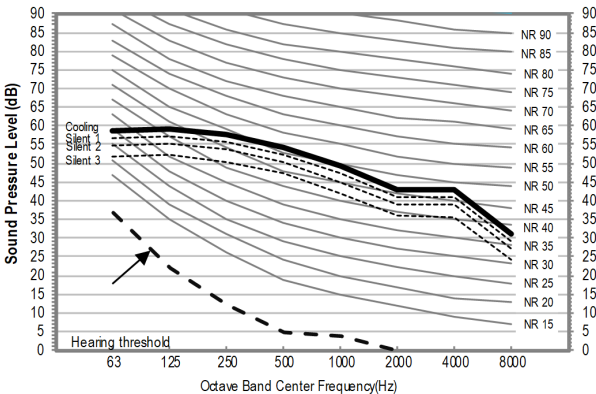
Model	Cooling	Silent 1	Silent 2	Silent 3
AM080AXVGGR/EU	53	52	51	49
AM100AXVGGR/EU	56	54	52	49
AM120AXVGGR/EU	61	59	54	49
AM140AXVGGR/EU	58	57	55	49

- NR Curve

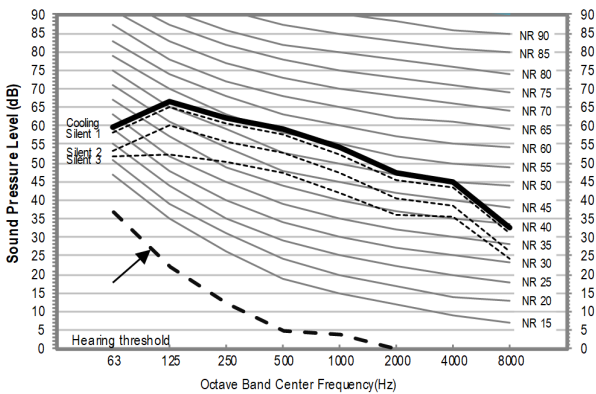
1) AM080AXVGGR/EU



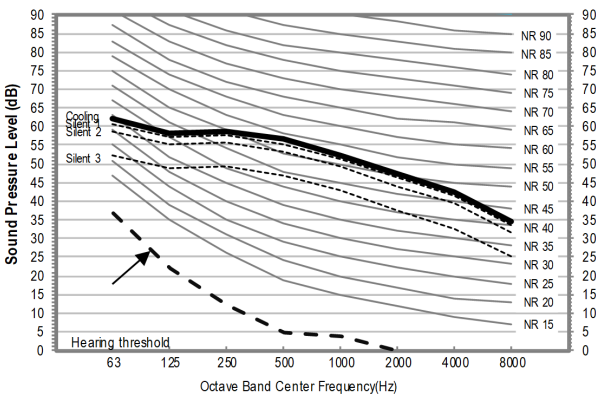
2) AM100AXVGGR/EU



3) AM120AXVGGR/EU



4) AM140AXVGGR/EU



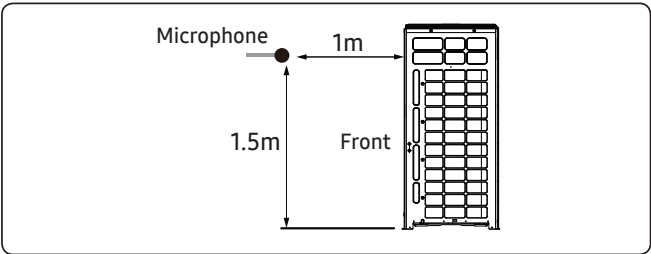
NOTE

- 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.
 - dB(A) = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound Pressure level

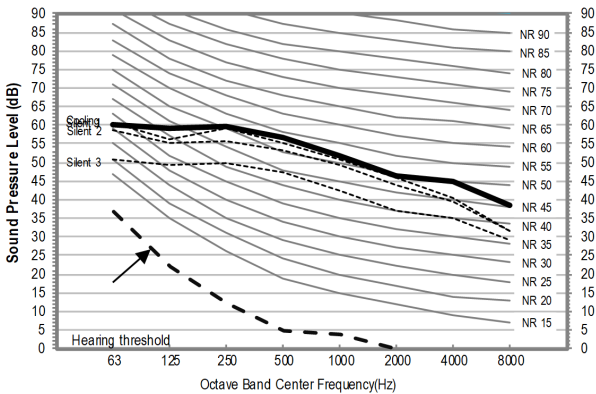
Unit: dB(A)



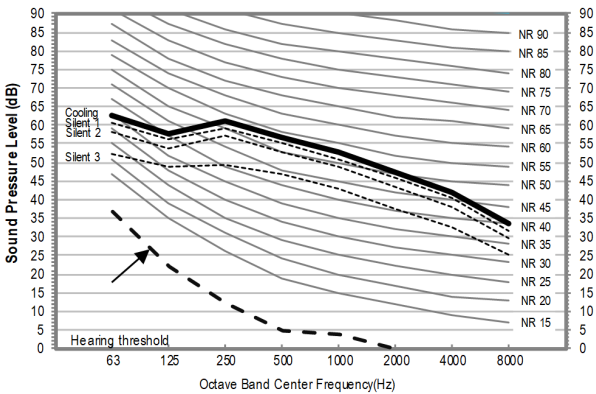
Model	Cooling	Silent 1	Silent 2	Silent 3
AM160AXVGGR/EU	58	57	55	49
AM180AXVGGR/EU	59	57	55	49
AM200AXVGGR/EU	61	57	55	49
AM220AXVGGR/EU	64	61	56	49

- NR Curve

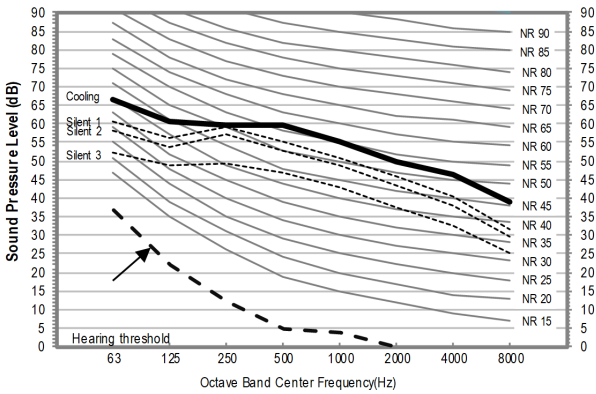
1) AM160AXVGGR/EU



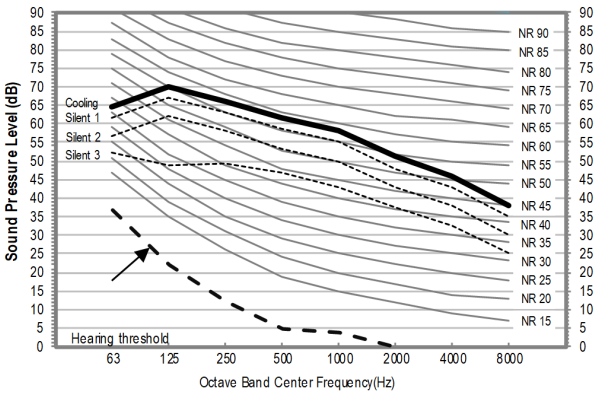
2) AM180AXVGGR/EU



3) AM200AXVGGR/EU



4) AM220AXVGGR/EU



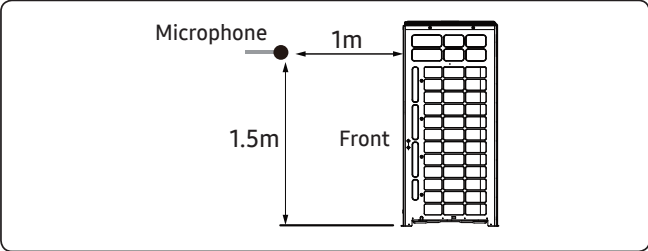
NOTE

- 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.
 - dB(A) = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound Pressure level

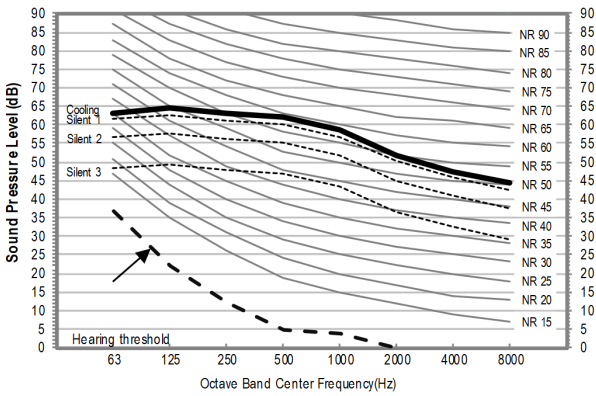
Unit: dB(A)



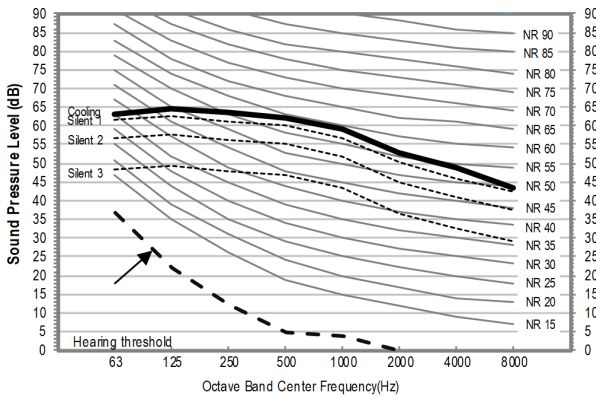
Model	Cooling	Silent 1	Silent 2	Silent 3
AM240AXVGGR/EU	65	62	57	49
AM260AXVGGR/EU	65	62	57	49

- NR Curve

1) AM240AXVGGR/EU



2) AM260AXVGGR/EU



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.
 - dB(A) = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

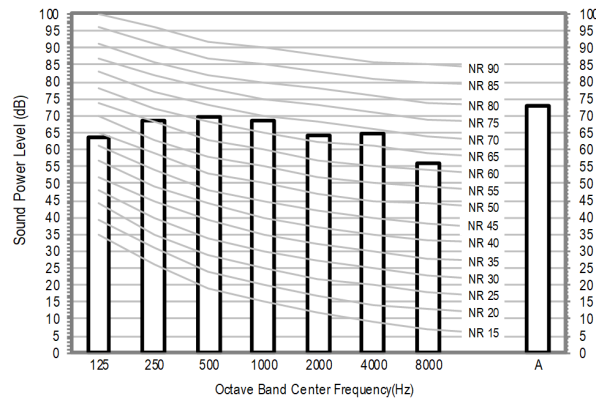
Sound Power level

Unit: dB(A)

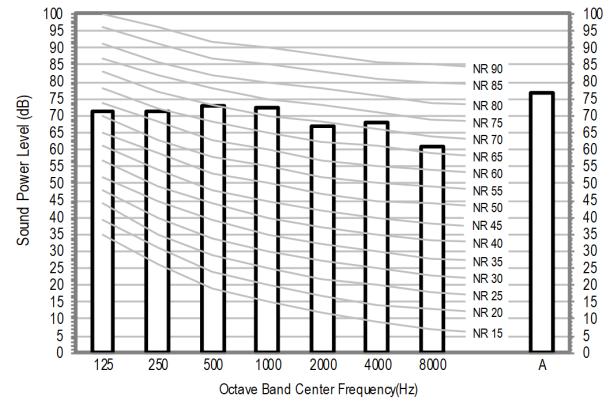
Model	Power
AM080AXVGGR/EU	75
AM100AXVGGR/EU	78
AM120AXVGGR/EU	81
AM140AXVGGR/EU	81

- NR Curve

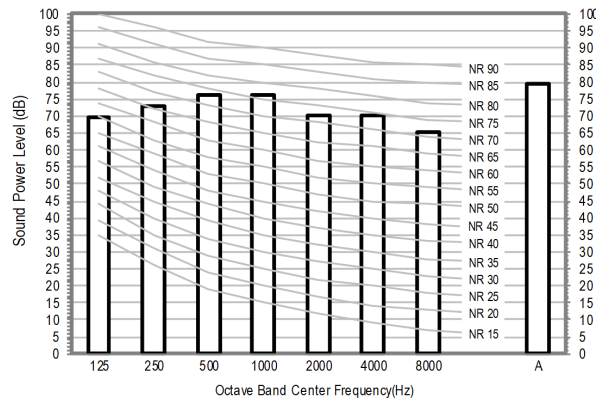
1) AM080AXVGGR/EU



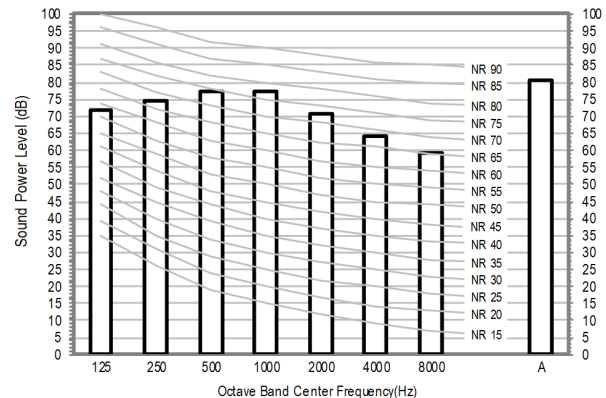
2) AM100AXVGGR/EU



3) AM120AXVGGR/EU



4) AM140AXVGGR/EU



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

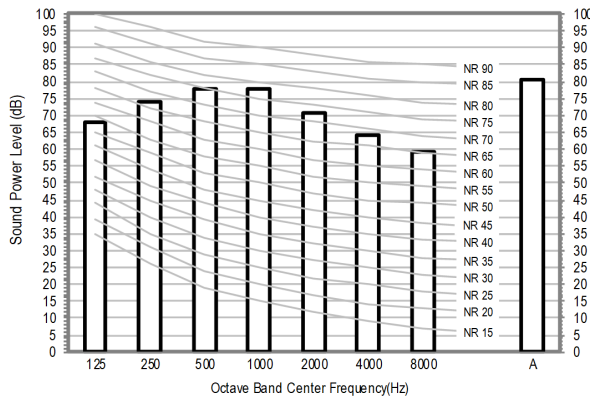
Sound Power level

Unit: dB(A)

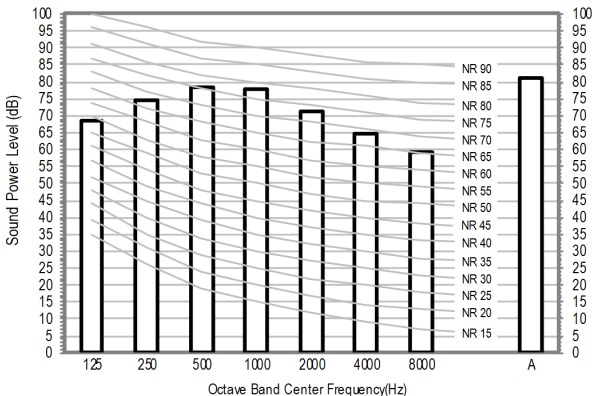
Model	Power
! - V[U!86 ' ' 2j%5	81
! - V]U!86 ' ' 2j%5	81
! - WUU!86 ' ' 2j%5	84
! - WWU!86 ' ' 2j%5	86

• NR Curve

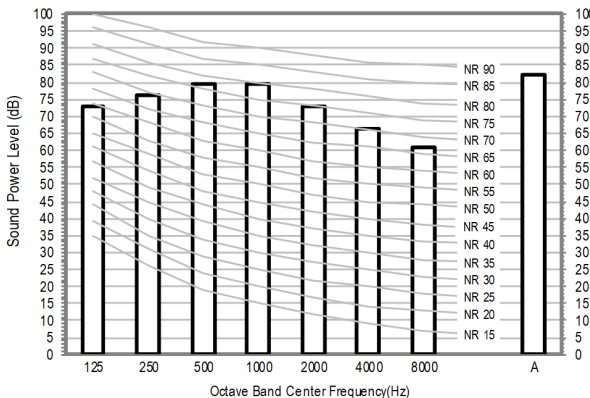
Vq ! - V[U!86 ' ' 2j%5



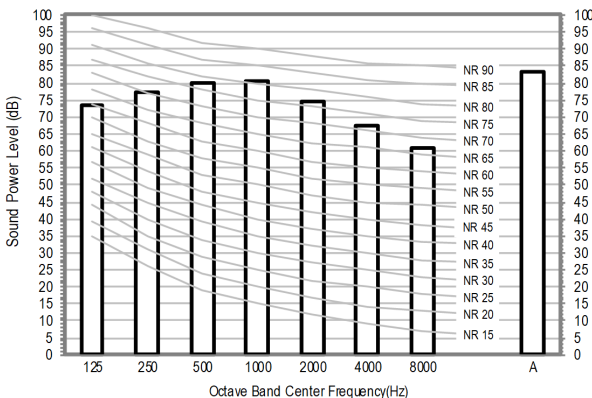
2) ! - V]U!86 ' ' 2j%5



3) ! - WUU!86 ' ' 2j%5



4) ! - WWU!86 ' ' 2j%5



 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

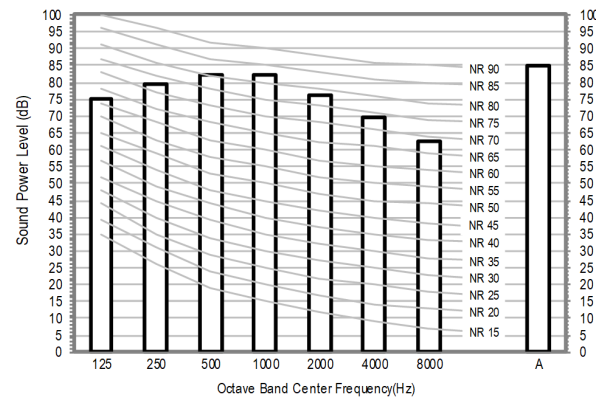
Sound Power level

Unit: dB(A)

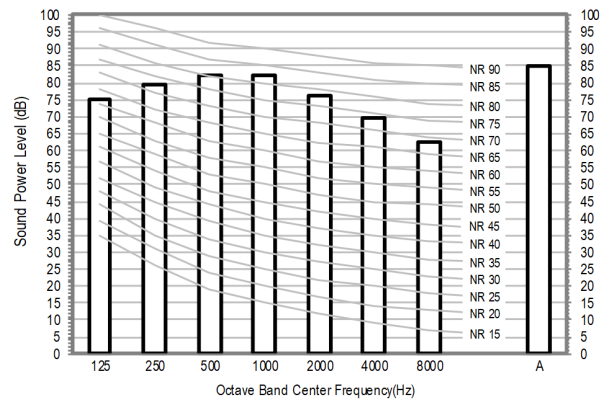
Model	Power
AM240AXVGGR/EU	87
AM260AXVGGR/EU	87

- NR Curve

1) AM240AXVGGR/EU



2) AM260AXVGGR/EU

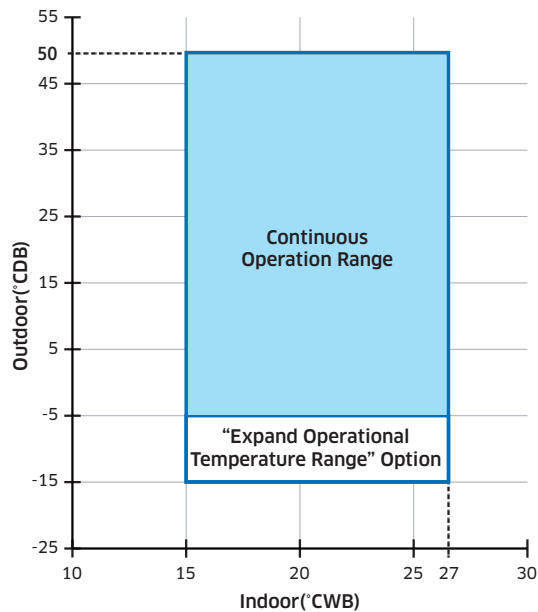


NOTE

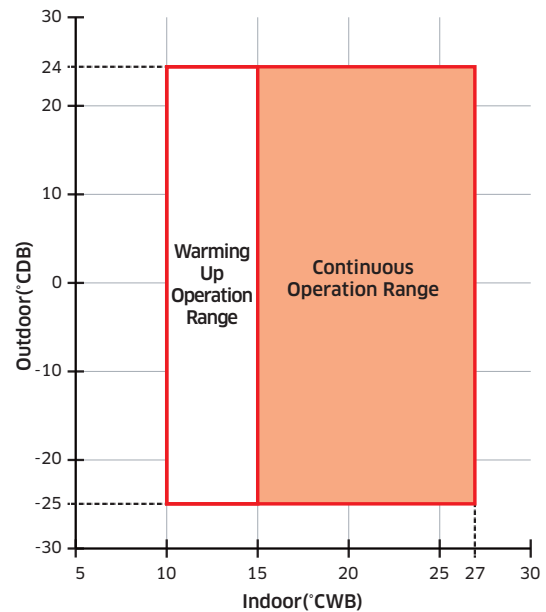
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

8. Operation Range

Cooling



Heating



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

8. Operation Range

Defrosting correction factor

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

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

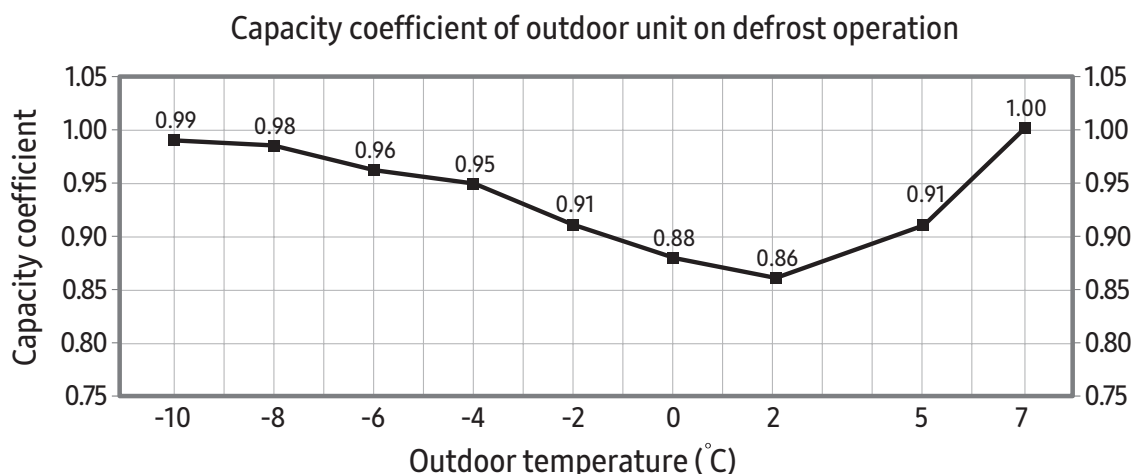
Formula : $A = B \times C$

Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

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



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

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

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

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

It is actually the frost occurrence section from 0 °C or less.

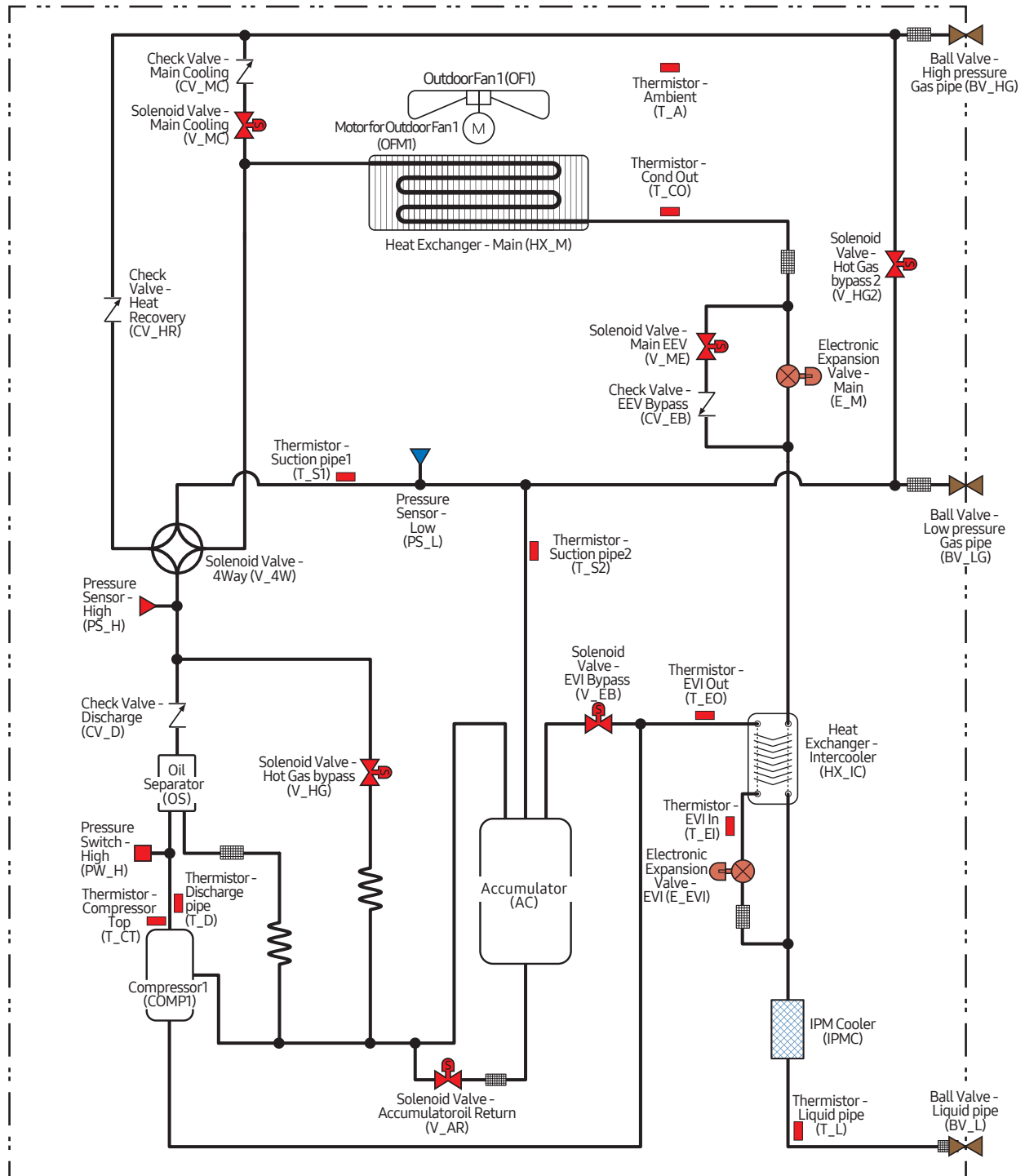
Since the outdoor temperature over 0 °C, the heating performance is the same before and after applying intelligence defrost operation

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

9. Piping Diagram

Outdoor unit

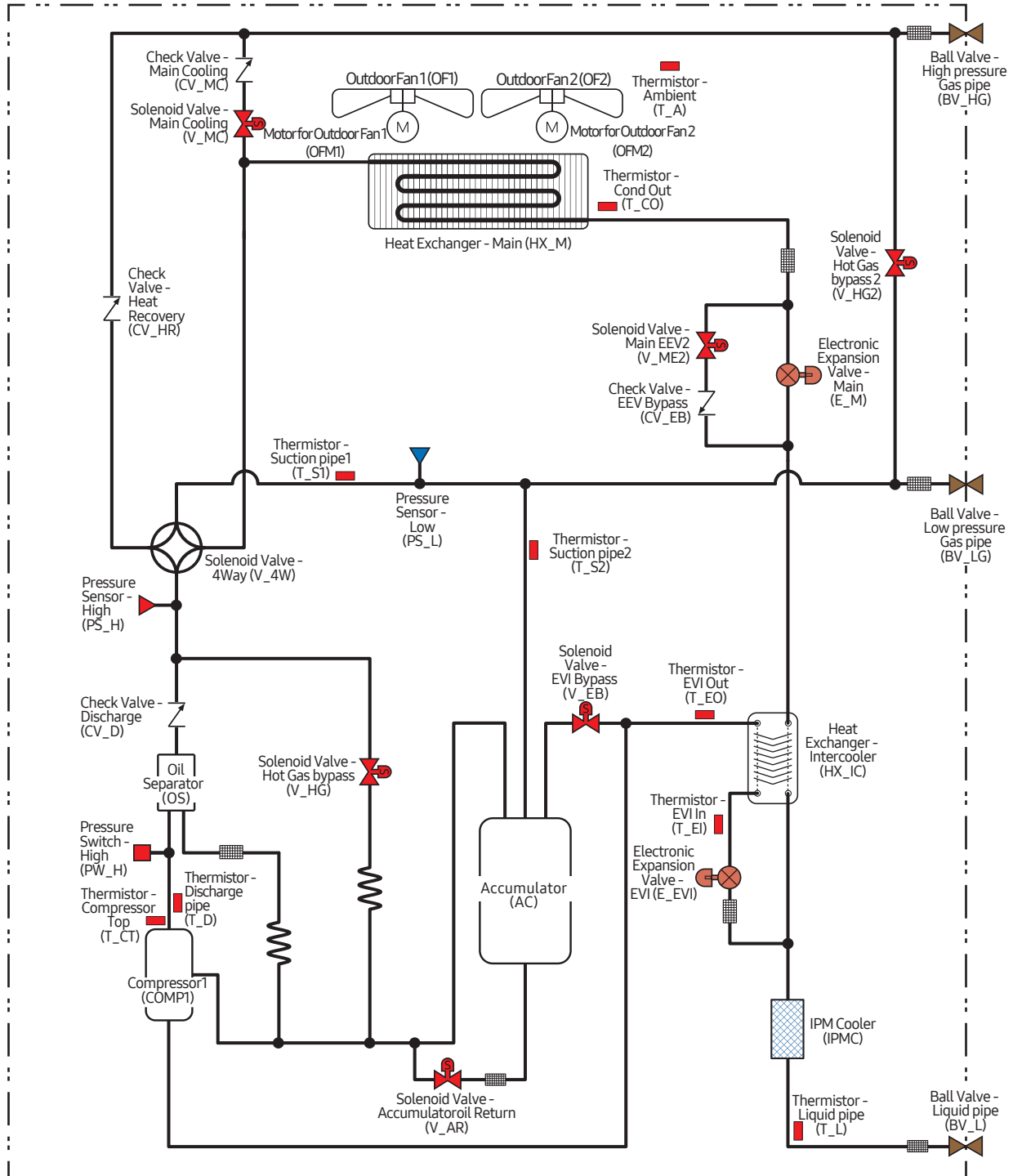
(1) AM080~120AXVGGR



9. Piping Diagram

Outdoor unit

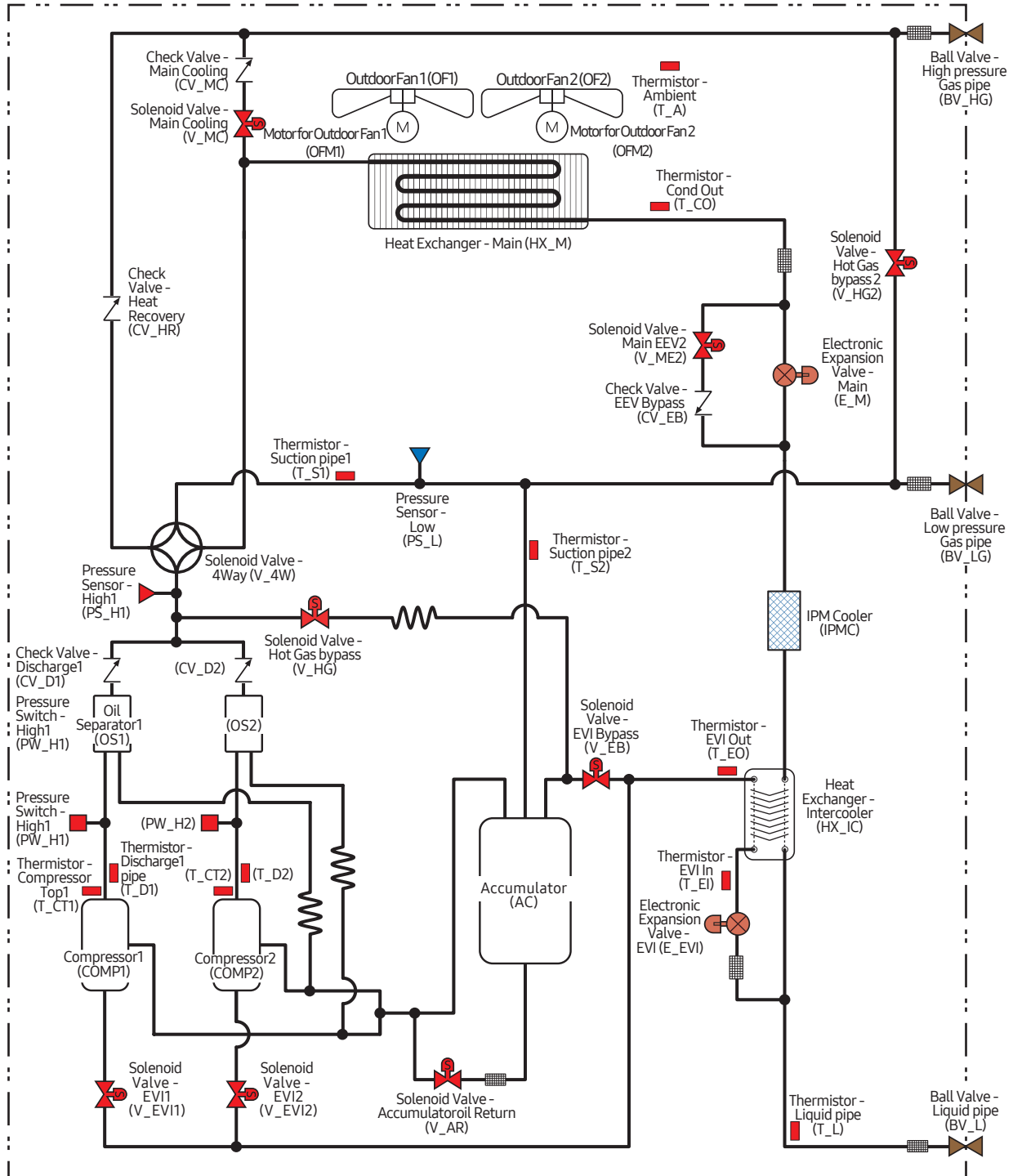
(2) AM140~200AXVGGR



9. Piping Diagram

Outdoor unit

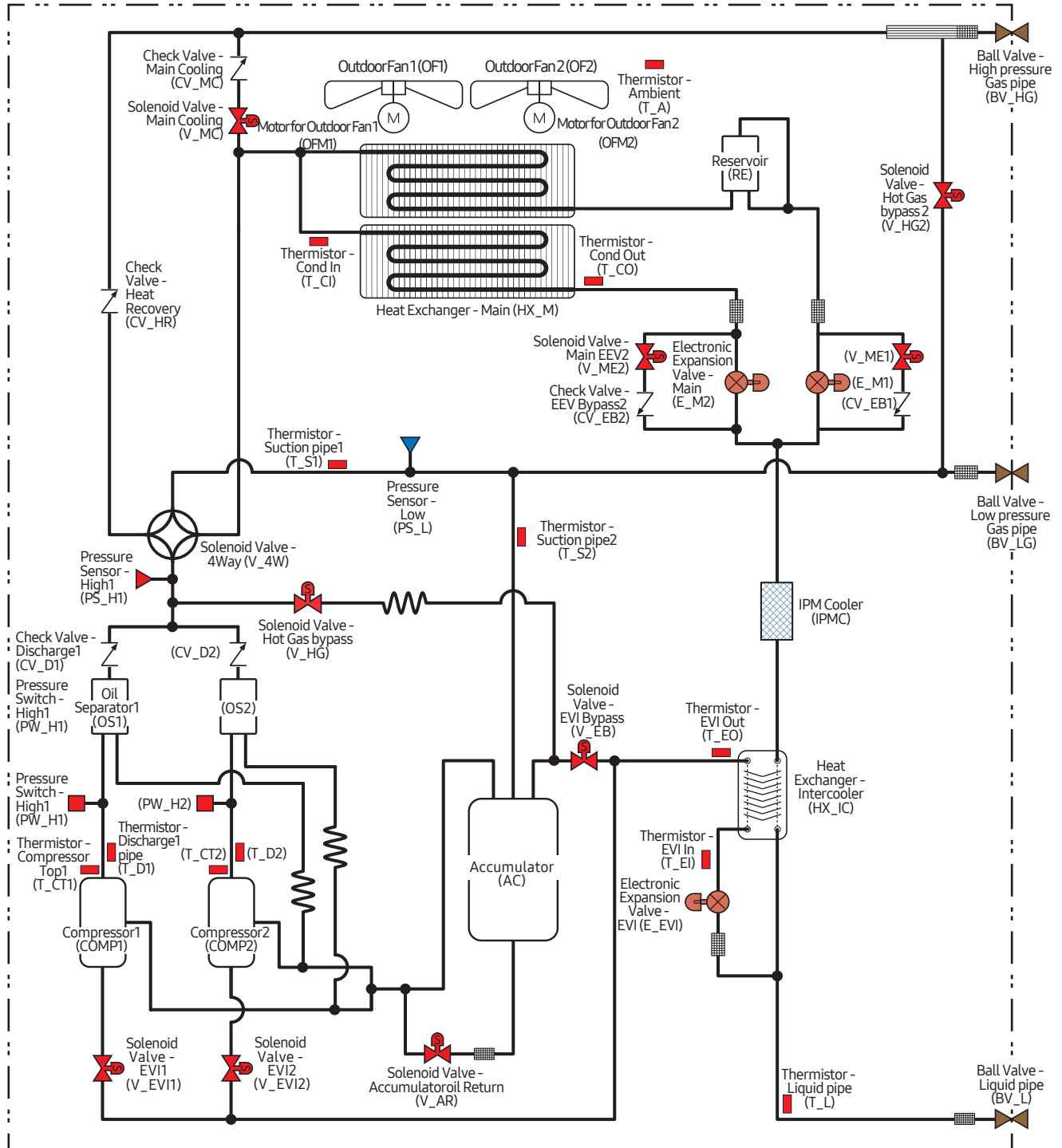
(3) AM220AXVGGR



9. Piping Diagram

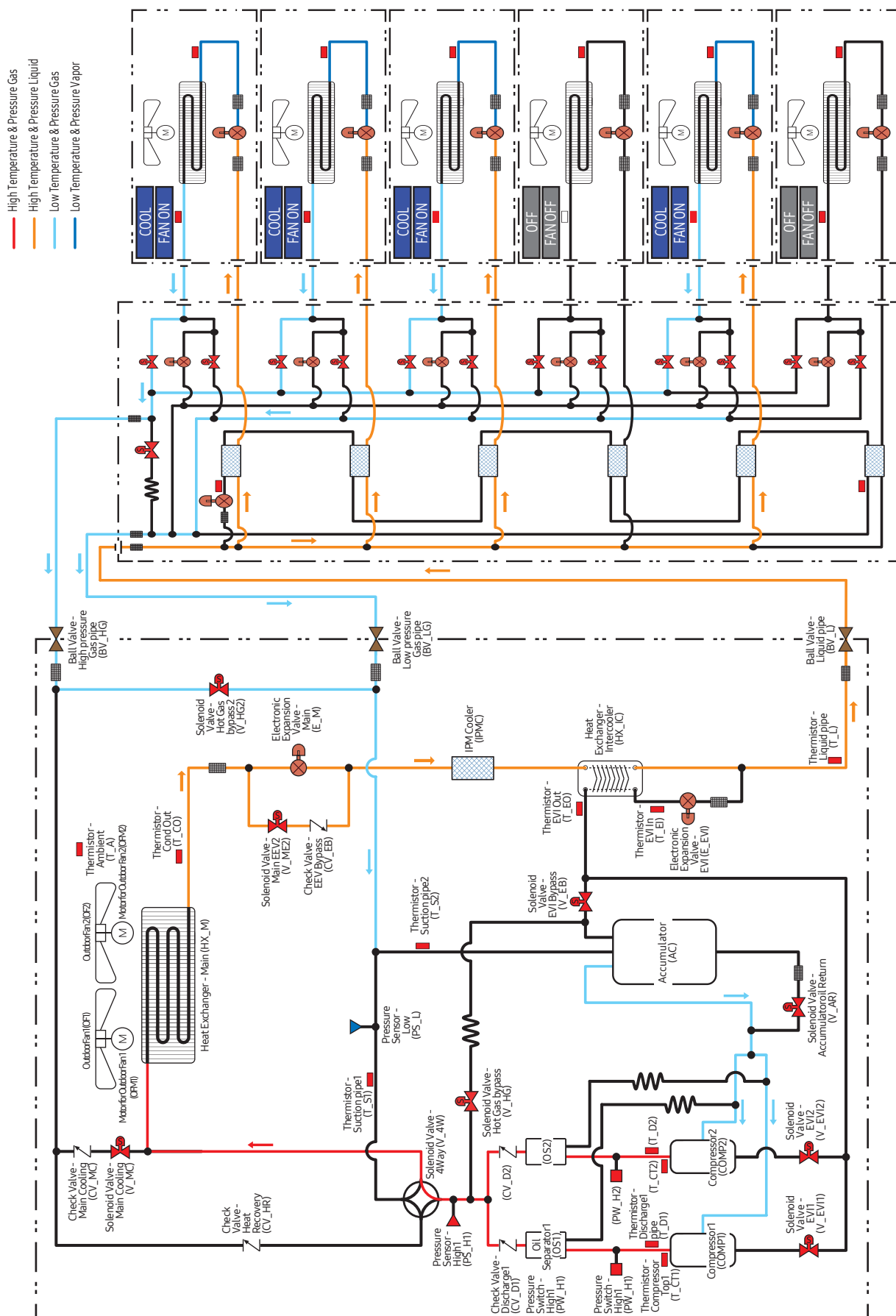
Outdoor unit

(4) AM240~260AXVGGR



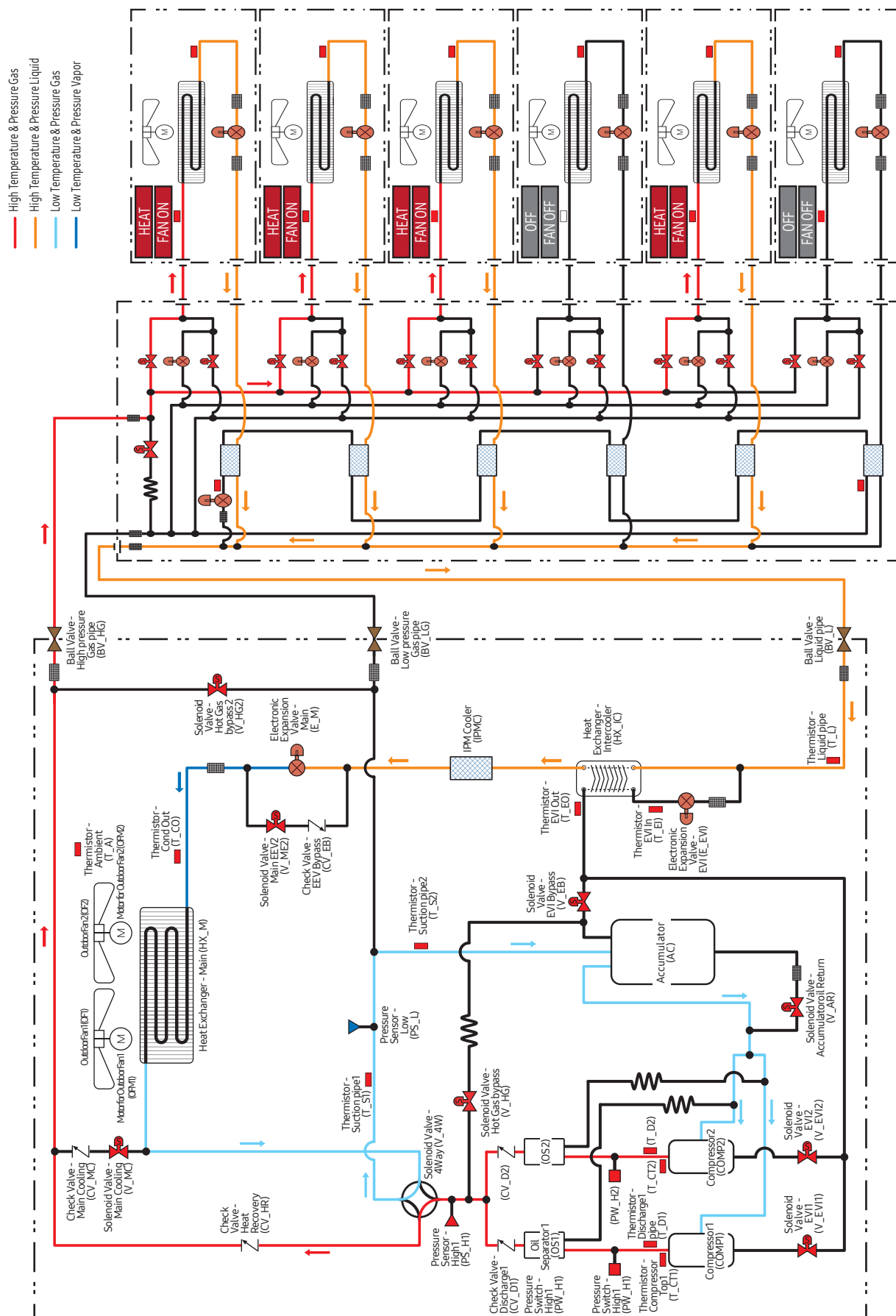
Cooling System

- 22HP with indoor units



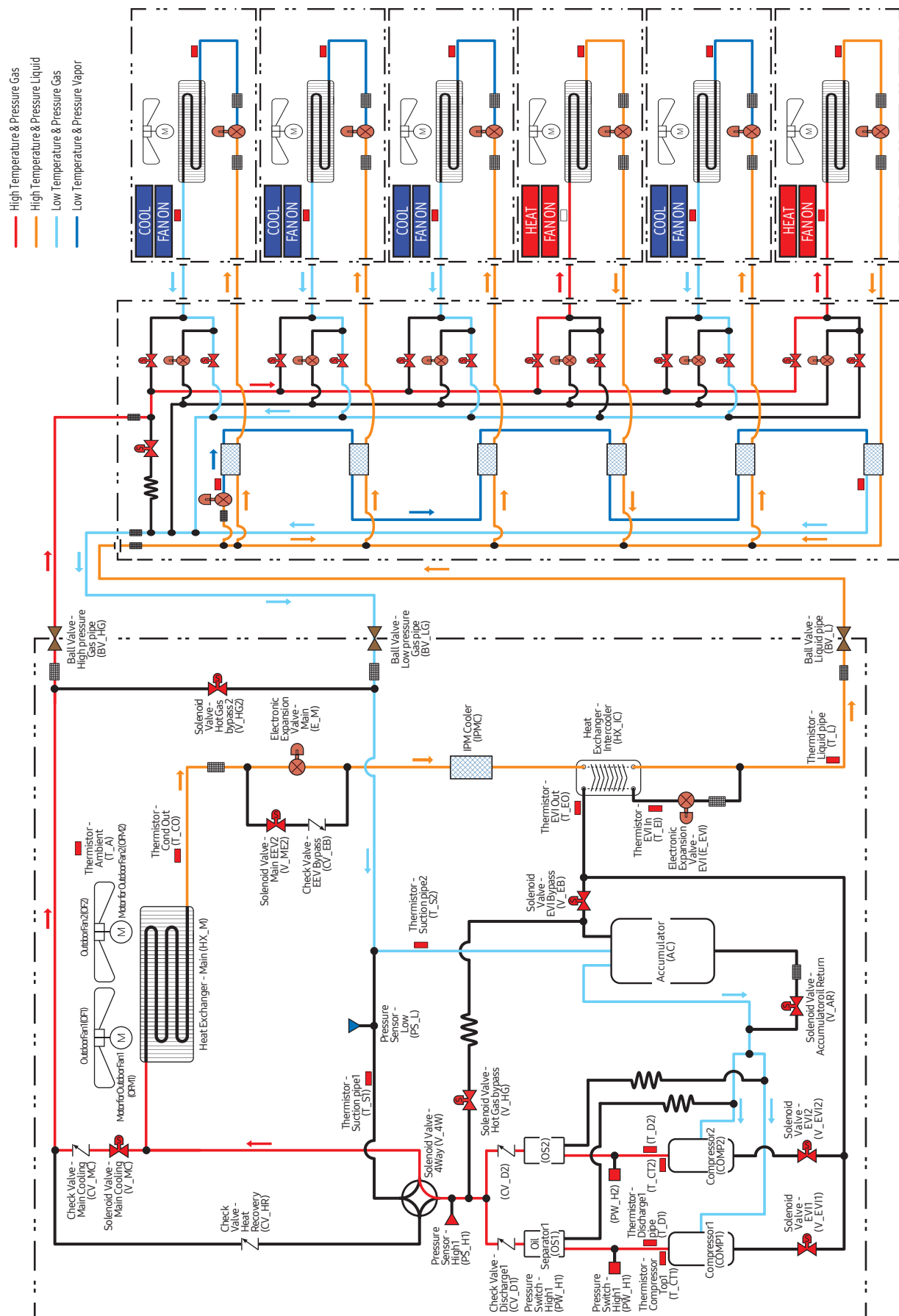
Heating System

- 22HP with indoor units



Main Cooling System

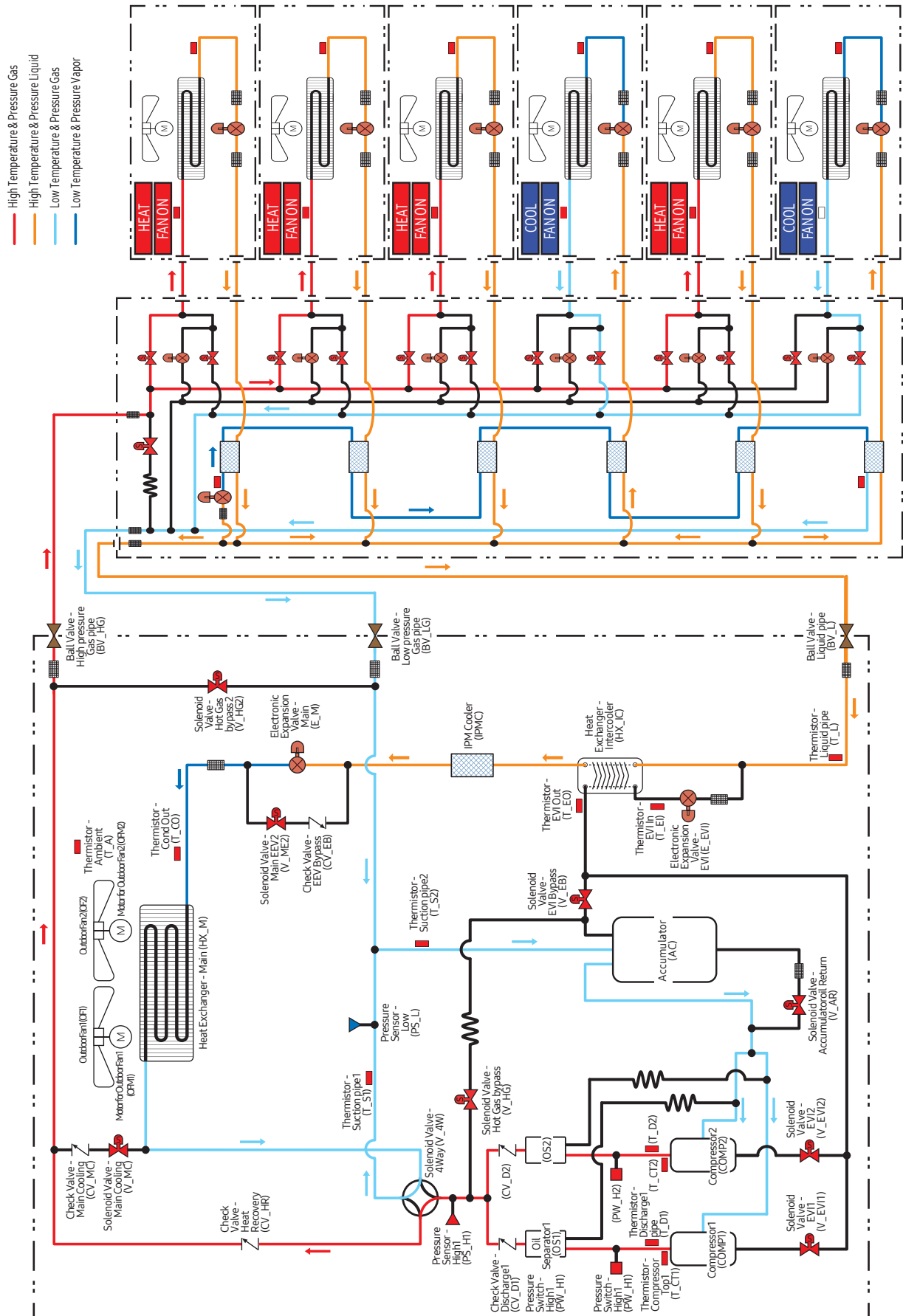
- 22HP with indoor units



9. Piping Diagram

Main Heating System

- 22HP with indoor units



10. Installation

Outdoor unit

Outdoor unit location requirements

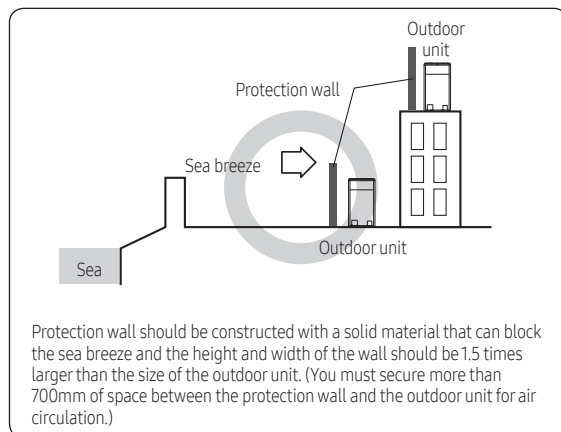
Decide the installation location, with the consideration of the following conditions, under user's approval.

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

Installation Guide at the seashore

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

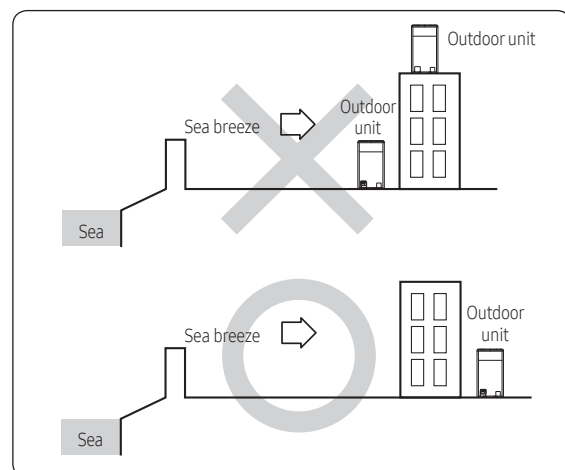
- 1 Do not install the product in a place where it is directly exposed to sea water and sea breeze.
 - Make sure to install the product behind a structure (such as building) that can block sea breeze.
 - Even when it is inevitable to install the product in seashore, make sure that product is not directly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



- 2 Consider that the salinity particles clinging to the external panels should be sufficiently washed out.
- 3 Because the residual water at the bottom of the outdoor unit significantly promotes corrosion, make sure that the slope does not disturb drainage.
 - Keep the floor level so that rain does not accumulate.
 - Be careful not to block the drain hole due to foreign substance
- 4 When product is installed in seashore, periodically clean it with water to remove attached salinity.

- 5 Make sure to install the product in a place that provides smooth water drainage. Especially, ensure that the base part has good drainage.
- 6 If the product is damaged during the installation or maintenance, make sure to repair it.
- 7 Check the condition of the product periodically.
 - Check the installation site every 3 months and perform anti-corrosion treatment such as R-Pro supplied by SAMSUNG (Code : MOK-220SA) or commercial water repellent grease and wax, etc., based on the product condition.
 - When the product is to be shut down for a long period of time, such as off-peak hours, take appropriate measures like covering the product.
- 8 If the product installed within 500m of seashore, special anti-corrosion treatment is required.
 - ✳ Please contact your local SAMSUNG representative for further details.

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



CAUTION

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

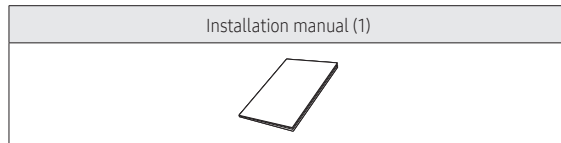


10. Installation

Outdoor unit

Preparing materials and tools

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



Optional accessories

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

Classification	Model Name	Specification
Y-Joint	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

Classification	Model Name	Specification
Y-Joint (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
Distribution header	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)
Y-Joint - Outdoor unit	MXJ-TA3419M	135.2 kW and below
	MXJ-TA4122M	Over 135.2 kW
Y-Joint (Only H/R) - Outdoor unit	MXJ-TA3100M	135.2 kW and below
	MXJ-TA3800M	Over 135.2 kW

- ※ If you use an indoor unit with no internal EEV(Electric Expansion Valve), you will need an EEV kit.
- ※ Only use the genuine accessories listed in above table and do not use imitated accessories.

Outdoor unit installation

WARNING

- Make sure to remove the wooden pallet before installing the outdoor unit. If you do not remove the wooden pallet, there is risk of fire during welding the pipes. If the outdoor unit is installed with wooden pallet on, and it was used for long period time, wooden palette may break and cause electrical hazard or high pressure may damage the pipes.
- ※ Fix an outdoor unit firmly on the base ground with anchor bolts.
- ※ Manufacturer is not responsible for the damage occurred by not following the installation standards.
- 1 Make sure that the height of the base ground is 200mm or higher to protect the outdoor unit from rain water or other external conditions. Also, install a draining pit around the base ground and connect the drain pipe to the drainage.
- 2 Considering the vibration and weight of the outdoor unit, strength of the base ground must be strong to prevent noise and the top surface of it should be flat.
- 3 Base ground should be 1.5 times larger than the bottom of the outdoor unit.
- 4 Outdoor unit must be fixed firmly so that it can withstand the wind speed of 30m/s. If you cannot fix the outdoor unit on the base ground, fix it by side or use extra structure.
- 5 In heating operation, defrost water may form so you must really care about the drainage and waterproofing the floor. To prevent defrost water from stagnating or freezing, construct a drainage with over 1/50 slope. (Ice may form on the floor in winter season.)
- 6 It is necessary to add wire mesh or steel bar during concrete construction for the base ground to prevent damages or cracks.
- 7 When installing multiple outdoor units at the same place, construct an H beam or an anti-vibration frame on the base ground to install the outdoor unit.
- 8 After installing an H beam or an anti-vibration frame, apply corrosion protection and other necessary coating.
- 9 When concrete construction for outdoor unit installation is completed, install an anti-vibration pad (t=20mm or more) or an anti-vibration frame to prevent vibration of the outdoor unit from transferring to the base ground.
- 10 Place the outdoor unit on an H beam or an anti-vibration frame and fix it with the bolt, nut and washer. (The bearing force has to be over 3.5kN)

(Unit : mm)		
Classification	DVM S2 Small Type	DVM S2 Large Type
A	1030	1395
B	790	1155

10. Installation

Outdoor unit

CAUTION

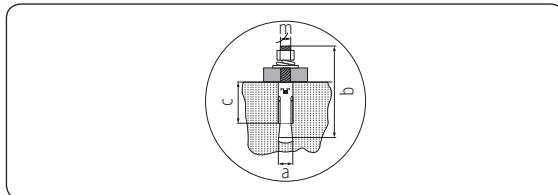
- Cautions regarding on connecting the anchor bolt
 - Tighten the rubber washer to prevent the bolt connection part of the outdoor unit from corroding.



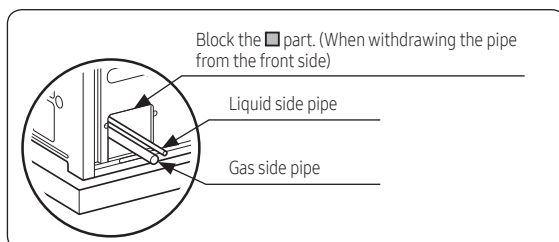
- Anchor specification

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

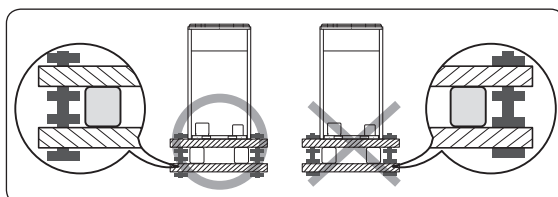
- ※ Use the anchor bolts and nuts that is zinc plated or made of STS material. Regular anchor bolts or nuts may get damaged by corrosion.



- 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.

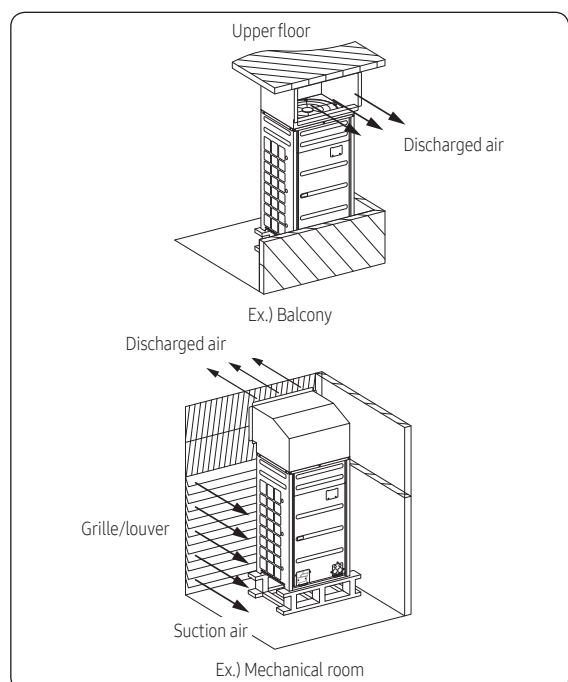
- Caution for installing discharge duct
 - Static pressure of the discharge duct should be within the standard specification when installing the duct.
 - If you remove the fan guard to install the discharge duct, make sure to install a safety net on the duct outlet. Foreign substance may enter into the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



Installing the outdoor unit in various environments

Installing the outdoor unit around the obstacles

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

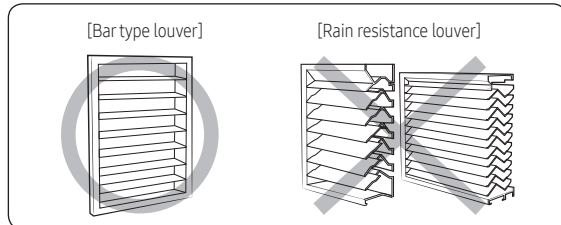


10. Installation

Outdoor unit

⚠ WARNING

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



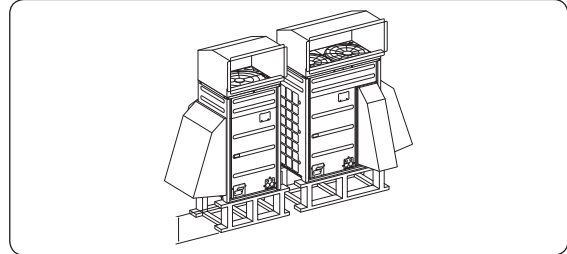
- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria : greater than 80%

Installing the outdoor unit in cold region

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

⚠ CAUTION

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

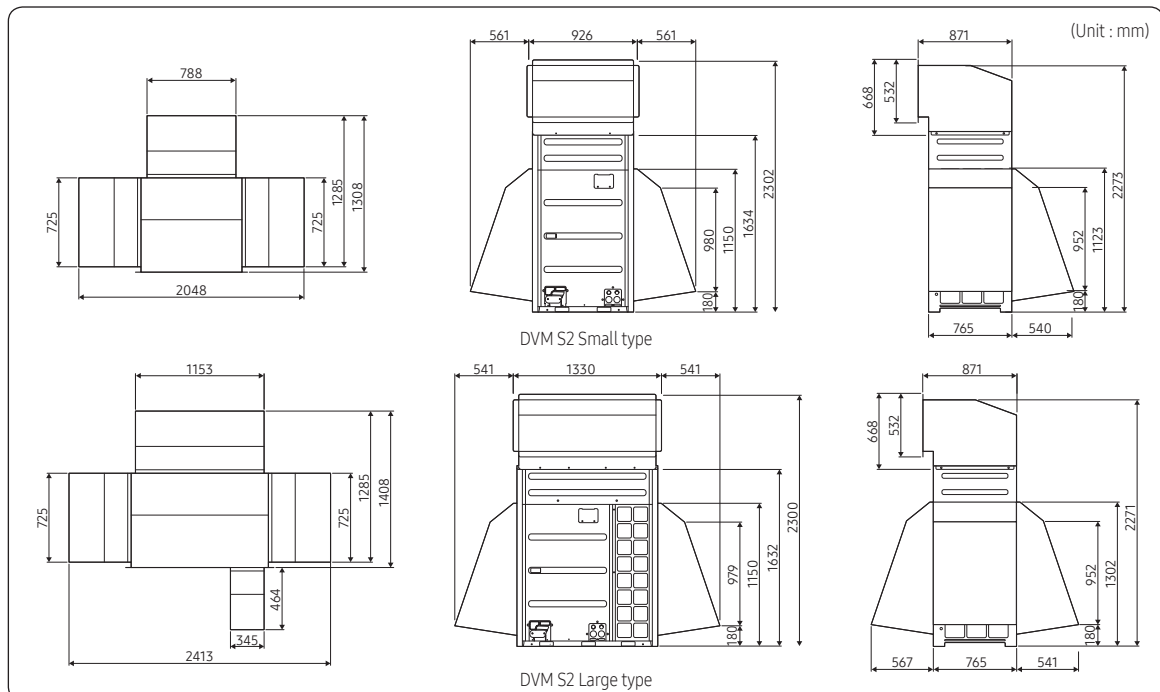


Installing the outdoor unit in windy region

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

⚠ CAUTION

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



10. Installation

Outdoor unit

WARNING

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

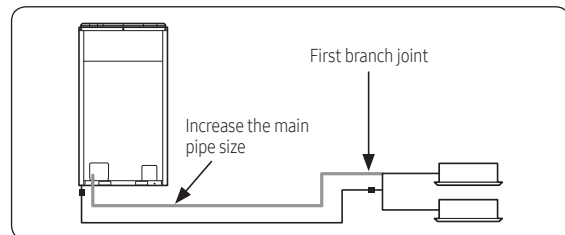
Refrigerant pipe work

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

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

Tool	Installation process/ purpose	Compatibility with conventional tool
Vacuum pump	Pipe drying	Compatible (Use products which contain the check valve to prevent the oil from flowing backward into the outdoor unit.) Use the one that can be vacuumed up to -100.7kpa(5Torr).
Scale for refrigerant charging	Refrigerant charging	Compatible
Gas leak detector	Gas leak test	Need exclusive one (Ones used for R-134a is compatible)
Flare nut	Must use the flare nut equipped with the product.	

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.

10. Installation

Outdoor unit

H/P

Ex.) 135.2 kW			
Capacity (kW)	No.	Pipe size (mm)	
		Liquid	Gas
33.6	(1)	Ø 12.70	Ø 28.58
73.6	(2)	Ø 19.05	Ø 34.92
135.2	(3)	Ø 19.05	Ø 41.28

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

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

Outdoor unit capacity (kW) (Cooling)	*Maximum pipe length within 90m		*Maximum pipe length over 90m	
	Liquid (mm)	Gas (mm)	Liquid (mm)	Gas (mm)
Capacity ≤ 25	Ø 9.52	Ø 19.05	Ø 12.70	Ø 22.22
25 < Capacity ≤ 32		Ø 22.22		Ø 25.40 ^{note1)}
32 < Capacity ≤ 39	Ø 12.70	Ø 28.58	Ø 15.88	Ø 28.58
39 < Capacity ≤ 44				Ø 31.75 ^{note2)}
44 < Capacity ≤ 48	Ø 15.88	Ø 34.92	Ø 19.05	
48 < Capacity ≤ 55		Ø 41.28	Ø 22.22	Ø 38.10 ^{note3)}
55 < Capacity ≤ 66	Ø 19.05	Ø 53.98	Ø 25.40 ^{note1)}	Ø 41.28
66 < Capacity ≤ 72		Ø 28.58		
72 < Capacity ≤ 100	Ø 22.22	Ø 25.40	Ø 28.58	Ø 53.98
100 < Capacity ≤ 139		Ø 25.40		
139 < Capacity ≤ 173	Ø 25.40	Ø 25.40	Ø 28.58	Ø 53.98
173 < Capacity ≤ 252		Ø 25.40		
252 < Capacity	Ø 25.40		Ø 28.58	Ø 53.98

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

Size of the pipe between branch joints (B)

Select the pipe size according to the sum of indoor unit capacity which will be connected after the branch.
※ However, if the size of the pipe between branch joints (B) is bigger than the size of the pipe connected to the outdoor unit (A), apply the pipe size (A).

Indoor unit capacity (kW)	Branch pipe length within 45m		Branch pipe length between 45~90m	
	Liquid (mm)	Gas (mm)	Liquid (mm)	Gas (mm)
Capacity ≤ 15	Ø 9.52	Ø 15.88	Ø 12.70	Ø 19.05
15 < Capacity ≤ 25		Ø 19.05		Ø 22.22
25 < Capacity ≤ 32	Ø 12.70	Ø 22.22	Ø 15.88	Ø 25.40 ^{note1)}
32 < Capacity ≤ 39		Ø 28.58		Ø 28.58
39 < Capacity ≤ 44	Ø 15.88	Ø 34.92	Ø 19.05	Ø 31.75 ^{note2)}
44 < Capacity ≤ 48		Ø 41.28		
48 < Capacity ≤ 55	Ø 19.05	Ø 53.98	Ø 22.22	Ø 38.10 ^{note3)}
55 < Capacity ≤ 66		Ø 25.40		
66 < Capacity ≤ 72	Ø 22.22	Ø 25.40	Ø 28.58	Ø 53.98
72 < Capacity ≤ 100		Ø 25.40		
100 < Capacity ≤ 139	Ø 25.40	Ø 25.40	Ø 28.58	Ø 53.98
139 < Capacity ≤ 173		Ø 25.40		
173 < Capacity ≤ 252	Ø 25.40	Ø 25.40	Ø 28.58	Ø 53.98
252 < Capacity		Ø 25.40		

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	Gas
6.0 and below	Ø 6.35	Ø 12.70
6.1 ~ 16.0	Ø 9.52	Ø 15.88
16.1 ~ 23.0	Ø 9.52	Ø 19.05
Over 23.0	Ø 9.52	Ø 22.22

Branch joint

Branch joint between outdoor units (C)

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

First branch joint (D)
Make a selection according to outdoor unit capacity.

Classification	Model name of the branch joint	Outdoor unit capacity (kW)
Y-joint (D)	MXJ-YA1509M	15.0 and below
	MXJ-YA2512M	15.1 ~ 40.0
	MXJ-YA2812M	40.1 ~ 45.0
	MXJ-YA2815M	45.1 ~ 70.3
	MXJ-YA3419M	70.4 ~ 98.4
	MXJ-YA4119M	98.5 ~ 135.2
	MXJ-YA4422M	Over 135.2

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 and below
	MXJ-YA2512M	15.1 ~ 40.0
	MXJ-YA2812M	40.1 ~ 45.0
	MXJ-YA2815M	45.1 ~ 70.3
	MXJ-YA3419M	70.4 ~ 98.4
	MXJ-YA4119M	98.5 ~ 135.2
	MXJ-YA4422M	Over 135.2

2) Distribution header

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

10. Installation

Outdoor unit

H/P

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

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

Condition 1: In case the length for vertical piping is less than 40 m

Condition 2: Max. length $A \geq \text{Max. piping length} / \{1 - (\text{vertical piping length} * 0.015)\}$

※ Max. piping length: Piping length between the outdoor unit and the farthest indoor unit (m)

- Length allowed to reduce the diameter of liquid pipe, A (equivalent length)
- When piping is installed with reduction of the diameter of liquid pipe, Please set option 'reduction of the diameter of liquid pipe.'

Capacity (HP)	Below 90 m		Over 90m	
	Pipe diameter	Max. length (m)	Pipe diameter	Max. length (m)
8	This capacity is not supported.			
10	This capacity is not supported.			
12	9.52	50	12.7	200
14	9.52	40	12.7	190
16	9.52	30	12.7	150
18	12.7	90	15.88	200
20	12.7	90	15.88	200
22	12.7	80	15.88	200
24	12.7	70	15.88	200
26	15.88	90	19.05	200
28	15.88	90	19.05	200
30	15.88	90	19.05	200
32	15.88	90	19.05	200
34	15.88	90	19.05	200
36	15.88	90	19.05	200
38	15.88	90	19.05	200
40	15.88	80	19.05	200
42	15.88	70	19.05	200
44	15.88	70	19.05	200
46	15.88	60	19.05	180
48	15.88	60	19.05	170
50	15.88	50	19.05	150
52	15.88	50	19.05	140

Capacity (HP)	Below 90 m		Over 90m	
	Pipe diameter	Max. length (m)	Pipe diameter	Max. length (m)
54	15.88	40	19.05	130
56	15.88	40	19.05	120
58	15.88	40	19.05	120
60	15.88	40	19.05	110
62	19.05	90	22.22	200
64	19.05	90	22.22	200
66	19.05	90	22.22	200
68	19.05	90	22.22	200
70	19.05	80	22.22	190
72	19.05	80	22.22	180
74	19.05	70	22.22	170
76	19.05	70	22.22	160
78	19.05	70	22.22	150
80	19.05	60	22.22	150
82	19.05	60	22.22	140
84	19.05	60	22.22	130
86	19.05	50	22.22	130
88	19.05	50	22.22	120
90	19.05	50	22.22	120
92	This capacity is not supported.			
94	This capacity is not supported.			
96	This capacity is not supported.			
98	This capacity is not supported.			

e.g. In case of the site for 20HP, Max. piping length of 140 m (Horizontal piping length of 120 m & Vertical piping length of 20 m):

Max. length $A \geq \text{Max. piping length} / \{1 - (\text{Vertical piping length} * 0.015)\}$

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

Thus, the Max. piping length of 140 m (Horizontal piping length of 120 m & Vertical piping length of 20 m) can be allowed.

Accordingly, horizontal piping of 120 m + vertical piping of 20 m (140 m in total) can be installed.

Outdoor unit

33.6 kW 40.0 kW 61.6 kW ○ (A) ■ (B)				Ex.) 135.2 kW <table> <tr> <th rowspan="2">Capacity (kW)</th><th rowspan="2">No.</th><th colspan="2">Pipe size (mm)</th></tr> <tr> <th>Liquid</th><th>Gas</th></tr> <tr> <td>33.6</td><td>(1)</td><td>Ø 12.70</td><td>Ø 28.58</td></tr> <tr> <td>73.6</td><td>(2)</td><td>Ø 19.05</td><td>Ø 34.92</td></tr> <tr> <td>135.2</td><td>(3)</td><td>Ø 19.05</td><td>Ø 41.28</td></tr> </table>			Capacity (kW)	No.	Pipe size (mm)		Liquid	Gas	33.6	(1)	Ø 12.70	Ø 28.58	73.6	(2)	Ø 19.05	Ø 34.92	135.2	(3)	Ø 19.05	Ø 41.28																																																																						
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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="3">*Maximum pipe length within 90m</th><th colspan="3">*Maximum pipe length over 90m</th></tr> <tr> <th>Liquid (mm)</th><th>Low pressure gas (mm)</th><th>High pressure gas (mm)</th><th>Liquid (mm)</th><th>Low pressure gas (mm)</th><th>High pressure gas (mm)</th></tr> <tr> <td>Capacity ≤ 25</td><td rowspan="2">Ø 9.52</td><td>Ø 19.05</td><td>Ø 15.88</td><td rowspan="2">Ø 12.70</td><td>Ø 22.22</td><td>Ø 15.88</td></tr> <tr> <td>25 < Capacity ≤ 32</td><td>Ø 22.22</td><td colspan="2">Ø 19.05</td><td>Ø 25.40 note1)</td><td rowspan="2">Ø 19.05</td></tr> <tr> <td>32 < Capacity ≤ 39</td><td rowspan="4">Ø 12.70</td><td colspan="2" rowspan="4">Ø 28.58</td><td rowspan="4">Ø 15.88</td><td>Ø 28.58</td></tr> <tr> <td>39 < Capacity ≤ 44</td><td rowspan="2">Ø 31.75 note2)</td><td rowspan="2">Ø 22.22</td></tr> <tr> <td>44 < Capacity ≤ 48</td></tr> <tr> <td>48 < Capacity ≤ 55</td><td rowspan="2">Ø 38.10 note3)</td><td rowspan="2">Ø 28.58</td></tr> <tr> <td>55 < Capacity ≤ 66</td><td rowspan="2">Ø 15.88</td><td rowspan="2">Ø 34.92</td><td rowspan="2">Ø 28.58</td><td colspan="3">Ø 19.05</td></tr> <tr> <td>66 < Capacity ≤ 72</td><td rowspan="2">Ø 41.28</td><td rowspan="2">Ø 34.92</td></tr> <tr> <td>72 < Capacity ≤ 100</td><td rowspan="2">Ø 19.05</td><td rowspan="2">Ø 41.28</td><td rowspan="2">Ø 34.92</td><td colspan="3">Ø 22.22</td></tr> <tr> <td>100 < Capacity ≤ 139</td><td rowspan="2">Ø 53.98</td><td rowspan="2">Ø 41.28</td></tr> <tr> <td>139 < Capacity ≤ 173</td><td rowspan="2">Ø 22.22</td><td rowspan="4">Ø 53.98</td><td rowspan="3">Ø 41.28</td><td colspan="3">Ø 25.40 note1)</td></tr> <tr> <td>173 < Capacity ≤ 252</td><td rowspan="2">Ø 44.45</td><td rowspan="2">Ø 44.45</td></tr> <tr> <td>252 < Capacity</td><td>Ø 25.40</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. * 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.				Outdoor unit capacity (kW) (Cooling)	*Maximum pipe length within 90m			*Maximum pipe length over 90m			Liquid (mm)	Low pressure gas (mm)	High pressure gas (mm)	Liquid (mm)	Low pressure gas (mm)	High pressure gas (mm)	Capacity ≤ 25	Ø 9.52	Ø 19.05	Ø 15.88	Ø 12.70	Ø 22.22	Ø 15.88	25 < Capacity ≤ 32	Ø 22.22	Ø 19.05		Ø 25.40 note1)	Ø 19.05	32 < Capacity ≤ 39	Ø 12.70	Ø 28.58		Ø 15.88	Ø 28.58	39 < Capacity ≤ 44	Ø 31.75 note2)	Ø 22.22	44 < Capacity ≤ 48	48 < Capacity ≤ 55	Ø 38.10 note3)	Ø 28.58	55 < Capacity ≤ 66	Ø 15.88	Ø 34.92	Ø 28.58	Ø 19.05			66 < Capacity ≤ 72	Ø 41.28	Ø 34.92	72 < Capacity ≤ 100	Ø 19.05	Ø 41.28	Ø 34.92	Ø 22.22			100 < Capacity ≤ 139	Ø 53.98	Ø 41.28	139 < Capacity ≤ 173	Ø 22.22	Ø 53.98	Ø 41.28	Ø 25.40 note1)			173 < Capacity ≤ 252	Ø 44.45	Ø 44.45	252 < Capacity	Ø 25.40	Size of the pipe between the branch joint and the indoor unit (F) 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</th><th>Gas</th></tr> <tr> <td>6.0 and below</td><td>Ø 6.35</td><td>Ø 12.70</td></tr> <tr> <td>6.1 ~ 16.0</td><td>Ø 9.52</td><td>Ø 15.88</td></tr> <tr> <td>16.1 ~ 23.0</td><td>Ø 9.52</td><td>Ø 19.05</td></tr> <tr> <td>Over 23.0</td><td>Ø 9.52</td><td>Ø 22.22</td></tr> </table>			Indoor unit capacity (kW)	Pipe size (O.D. mm)		Liquid	Gas	6.0 and below	Ø 6.35	Ø 12.70	6.1 ~ 16.0	Ø 9.52	Ø 15.88	16.1 ~ 23.0	Ø 9.52	Ø 19.05	Over 23.0	Ø 9.52	Ø 22.22
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10. Installation

Outdoor unit

H/R

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

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

Condition 1: In case the length for vertical piping is less than 40 m

Condition 2: Max. length A $\geq$ Max. piping length/{1 - (vertical piping length * 0,015)}

※ Max. piping length: Piping length between the outdoor unit and the farthest indoor unit (m)

- Length allowed to reduce the diameter of liquid pipe, A (equivalent length)
- When piping is installed with reduction of the diameter of liquid pipe, Please set option 'reduction of the diameter of liquid pipe'.

Capacity (HP)	Below 90 m		Over 90m	
	Pipe diameter	Max. length (m)	Pipe diameter	Max. length (m)
8	This capacity is not supported.			
10	This capacity is not supported.			
12	9.52	50	12.7	200
14	9.52	40	12.7	190
16	9.52	30	12.7	150
18	12.7	90	15.88	200
20	12.7	90	15.88	200
22	12.7	80	15.88	200
24	12.7	70	15.88	200
26	15.88	90	19.05	200
28	15.88	90	19.05	200
30	15.88	90	19.05	200
32	15.88	90	19.05	200
34	15.88	90	19.05	200
36	15.88	90	19.05	200
38	15.88	90	19.05	200
40	15.88	80	19.05	200
42	15.88	70	19.05	200
44	15.88	70	19.05	200
46	15.88	60	19.05	180
48	15.88	60	19.05	170
50	15.88	50	19.05	150
52	15.88	50	19.05	140
54	15.88	40	19.05	130
56	15.88	40	19.05	120
58	15.88	40	19.05	120
60	15.88	40	19.05	110
62	19.05	90	22.22	200
64	19.05	90	22.22	200
66	19.05	90	22.22	200
68	19.05	90	22.22	200
70	19.05	80	22.22	190
72	19.05	80	22.22	180
74	19.05	70	22.22	170
76	19.05	70	22.22	160
78	19.05	70	22.22	150
80	19.05	60	22.22	150
82	19.05	60	22.22	140
84	19.05	60	22.22	130
86	19.05	50	22.22	130
88	19.05	50	22.22	120
90	19.05	50	22.22	120
92	This capacity is not supported.			
94	This capacity is not supported.			
96	This capacity is not supported.			
98	This capacity is not supported.			

e.g. In case of the site for 20HP, Max. piping length of 140 m (Horizontal piping length of 120 m & Vertical piping length of 20 m):

Max. length A $\geq$ Max. piping length/{1 - (Vertical piping length * 0.015)}

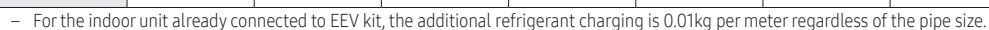
$200 \text{ m} \geq 140 \text{ m} / \{1 - (20 * 0.015)\} = 140 \text{ m} / 0.7 = 200 \text{ m}$

Thus, the Max. piping length of 140 m (Horizontal piping length of 120 m & Vertical piping length of 20 m) can be allowed.

Accordingly, horizontal piping of 120 m + vertical piping of 20 m (140 m in total) can be installed.

Outdoor unit

H/P



10. Installation

Outdoor unit

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

(Unit: kg)

Model	Refrigerant Amount (kg /Unit)																							
	1.5	1.7	2.2	2.8	3.2	3.6	4.0	4.5	5.6	6.0	7.1	8.2	9.0	9.3	11.0	11.2	12.8	14.0	16.0	18.0	22.0	22.4	25.0	28.0
Interior 1way cassette (JSF-0) (AM***HN1DEH/**) (AM***NN1PEH/**)		0.15	0.15																					
Slim 1way cassette (JSF-1/JSF-2) (AM***FJ/JN1N1DEH/**)			0.25	0.25		0.25			0.32	0.32														
2way cassette (AM***N2DEH/**)									0.31	0.47														
4way cassette S(600x600) (AM***NNDEH/**)	0.29		0.29	0.29		0.29		0.37	0.37	0.37														
4way cassette S (AM***F(N)N4DEH/**)								0.45	0.45	0.45		0.45				0.57	0.69	0.69						
4way cassette S (AM***N4FEH/**)				0.69		0.69	0.69	1.00	1.00	1.00	1.00	1.00	1.00		1.00									
360 cassette (AM***KN4DEH/**)								0.45	0.45	0.45		0.45				0.69	0.69	0.69						
Duct S (AM***NMPKH/**)					0.22		0.22	0.22	0.22	0.22		0.31				0.38	0.38	0.38						
Duct S (AM***NMPKH9**)				0.31	0.31		0.38	0.38		0.38														
Duct S (AM***HNHPKH/**)																0.38	0.38	0.38						
Home Duct (AM***KNLDEH/**)	0.13	0.13	0.13		0.17																			
Home Duct (AM***MNLDEH/**)							0.24	0.24		0.31														
Slim duct (AM***FNLDEH/**)	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***KNLDEH/**)							0.35	0.35		0.45		0.42				0.42	0.62	0.62						
Slim duct (AM***FNL(P)EH/**)				0.62		0.45	0.45		0.62	0.62						0.62								
Slim duct (AM***NNLFEH/**)					0.62	0.62																		
MSP duct (AM***NMDEH/**)		0.24	0.24		0.24		0.28	0.28		0.28		0.32				0.54	0.68	0.68	0.91					
HSP duct (AM***NHDEH/**)																0.68	0.68	0.68		1.18			1.18	
HSP duct (AM***NHF(P)EH/**)					1.18			1.18	1.18	1.18	1.18	1.18			1.18					1.15		1.15		
Big duct (AM***JNHF(P)KH/**)																			1.15		1.15			
OAP duct (AM***NEPEH/**)																	0.68			1.18			1.18	
Concealed Floor Standing (AM***NFDEH/**)					0.22				0.32	0.32														
Floor Standing (AM***NPDKH/**)																	0.69						1.85	
Ceiling (AM***NCDEH/**) (AM***NCDKH/**)								0.39		0.39					0.56		0.95							
Console (AM***NJDEH/**)			0.16	0.27		0.27		0.27	0.27															
Wall mounted (Neo forte) (AM***F(H)NTDEH/**)	0.24		0.24	0.24		0.24			0.36	0.36														
Wall mounted(Neo forte with EEV) (AM***F(H)NQDEH/**)	0.34		0.34	0.34		0.34		0.51	0.51	0.51														
Wall mounted(AR5000) (AM***NADKH/**)	0.16		0.16	0.19		0.25		0.25	0.52	0.52	0.52													
Wall mounted(AR5000 with EEV) (AM***NVDE(K)H/**)	0.22		0.22	0.25		0.34		0.34	0.71	0.71	0.71													
Wall mounted(Boracay) (AM***KNTEH/**)	0.24		0.24	0.32		0.32		0.49	0.49	0.49														
Wall mounted(Boracay with EEV) (AM***KNQDEH/**)	0.24		0.24	0.32		0.32		0.49	0.49	0.49														
Wall mounted(MAX4 with EEV) (AM***MNQDEH/**)													0.68											
ERV plus (AM***NKDEH/**)																							0.11	0.36
Hydro Unit HE (AM***NBDEH/**)																			0.60				0.70	1.20
Hydro Unit HT (AM***NBF*B/**)	0.60 note ¹⁾																							
MCU (MCU-S*NE**N)	0.50																							
4Way CST (AM***AN4PKH/**)				0.45		0.45		0.45	0.60		0.60		0.73			0.73	0.88	0.88						
LSP Duct (AM***ANLKH/**)		0.13	0.13	0.13		0.17		0.24	0.24	0.31														
MSP Duct (Duct S) (AM***ANMPKH/**)			0.45	0.45		0.45		0.45	0.45	0.45		0.80				0.84	0.84	0.84						
HSP Duct (Duct S) (AM***ANHPKH/**)								0.80	0.80	0.80		0.84				0.84	0.84	0.84						
A3050 (AM***JNADKH/**)	0.16		0.16	0.19		0.25		0.25	0.52	0.52	0.52													
A3050(with EEV) (AM***JNVDKH/**)	0.22		0.22	0.25		0.34		0.34	0.71	0.71	0.71													
QMD RAC (AM***TNADKH/**) (AM***TNVDKH/**) (AE***TNXDEG/**)	0.23		0.23	0.32		0.32		0.48	0.48	0.48	0.64													

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

10. Installation

Outdoor unit

- 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.
- Method to calculate total amount of additional refrigerant
 - Amount of additional refrigerant depending on the pipe length (a)
 - Amount of additional refrigerant for each indoor unit (b) = Σ (Amount of additional refrigerant for each connected indoor unit) × Refer to the table
 - Total amount of additional refrigerant = a+b
- × Sum of total amount of additional refrigerant and the basic amount of refrigerant should not exceed 100kg. If the refrigerant exceeds 100kg, separate the module so that weight of the refrigerant doesn't exceed 100kg.
Ex> If the outdoor unit's basic refrigerant amount is 10.5kg, the total amount of additional refrigerant(a+b) should not exceed 89.5kg.
- 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	Σ (①×②)
Liquid pipe (a)	Ø 6.35	35	0.02	0.7	a 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	Σ (①×②)
Indoor unit (b)	4way cassette (AM071FN4DEH*)	4	0.45	1.80	b 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 (a+b) = 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	Σ (①×②)
Liquid pipe (a)	Ø 6.35	15	0.02	0.3	a 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	

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	Σ (①×②)
Indoor unit (b)	4way cassette (AM071FN4DEH*)	5	0.45	2.25	b 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 (a+b) = 11.965+4.66 = 16.625 (kg)

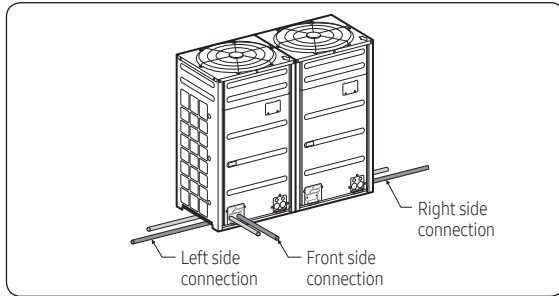
10. Installation

Outdoor unit

Pipe installation for an outdoor unit

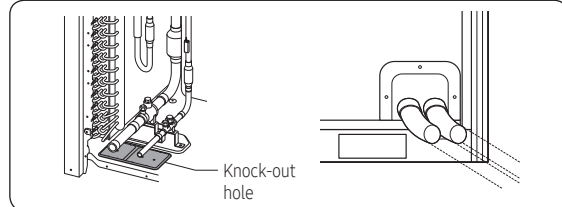
1 Direction of the pipe

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



⚠ CAUTION

- Caution for using knock-out hole



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

1 Connecting refrigerant pipe for outdoor unit

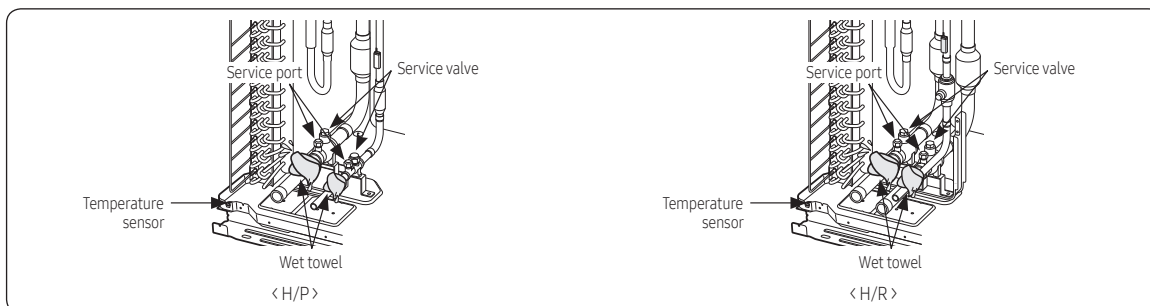
Classification	Front side connection	Right/left (and bottom) side connection
Working process	• First, remove the piping cover from the outdoor unit. • Separate the knock-out hole that you are going to use. If you separate the knock-out hole that is going to be unused, small animals such as squirrels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

⚠ CAUTION

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

10. Installation

Outdoor unit



1 Pipe installation between the outdoor units

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

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

Outdoor unit

H/P

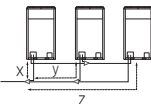
The diagrams illustrate three network topologies:

- Star Topology:** A central hub (represented by a server icon) is connected to three client computers (represented by monitor icons) via individual lines.
- Bus Topology:** A central backbone (represented by a server icon) is connected to three client computers (represented by monitor icons) via individual lines.
- Ring Topology:** A central hub (represented by a server icon) is connected to three client computers (represented by monitor icons) in a circular arrangement, where each computer is connected to its neighbors.

- 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)

Outdoor unit

H/P

Classification				Example		Remarks
Maximum allowable length of pipe	Outdoor unit ~ Indoor unit	Actual length (Equivalent length)	200m and below (220m and below)	Installing only with Y-joint	$a+b+c+d+e+f+g+p \leq 200\text{m}(220\text{m})$	Equivalent length Y-joint: 0.5 m, Distribution header: 1 m
				Installing with Y-joint and distribution header	$a+b+h \leq 200\text{m}$ (220m), $a+i+k \leq 200\text{m}$ (220m)	
				Installing only with distribution header	$a+i \leq 200\text{m}$ (220m)	
		Total length of pipe (m)	1,000 m or less	Installing only with Y-joint	$a+b+c+d+e+f+g+h+i+j+k+l+m+n+p \leq 1000\text{m}$	-
				Installing with Y-joint and distribution header	$a+b+c+d+e+f+g+h+i+j+k \leq 1000\text{m}$	-
				Installing only with distribution header	$a+b+c+d+e+f+g+h+i \leq 1000\text{m}$	-
	Outdoor unit ~ Outdoor unit (Module installation)	Pipe length	10 m or less	$x \leq 10\text{ m}, y \leq 10\text{m}, z \leq 10\text{ m}$		
		Equivalent length	13 m or less	$x \leq 13\text{ m}, y \leq 13\text{m}, z \leq 13\text{ m}$		
Maximum allowable height difference of pipe	Outdoor unit ~ Indoor unit	110/110m Note 2)		H1 ≤ 110/110m		
	Indoor unit ~ Indoor unit	50m or less		H2 ≤ 50m		
		But, when AM****NQDEH* / AM****JNV* is installed, H2 is 15 m or less.				

10. Installation

Outdoor unit

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

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

※ Please refer to the EEV Kit manual.

Note 1) Required condition

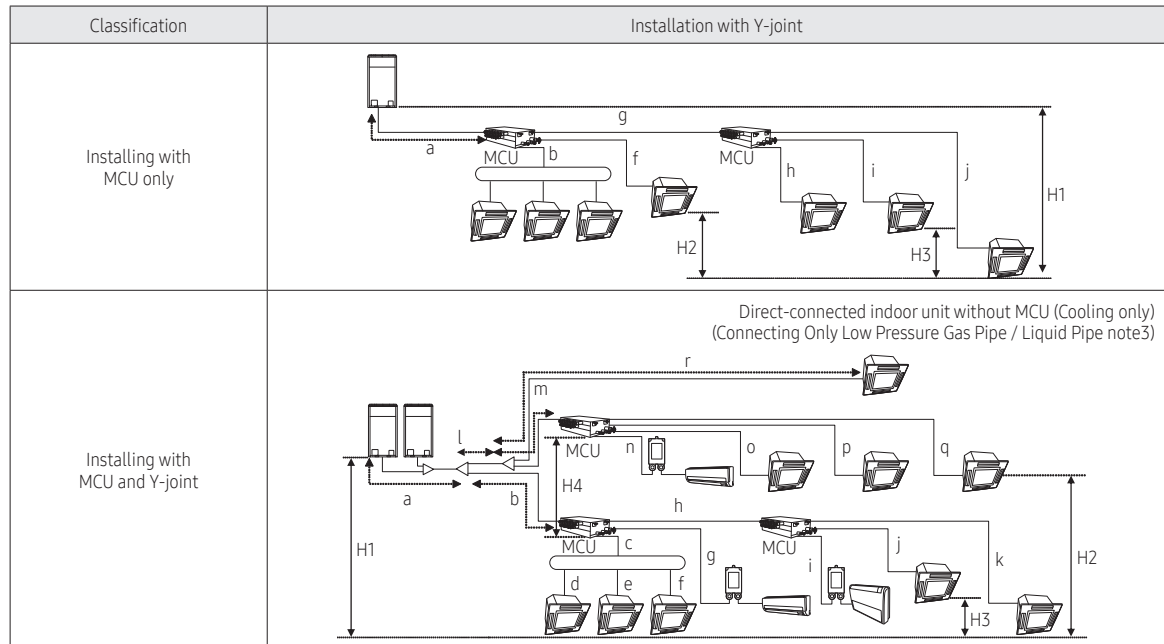
Classification	Condition	Example
First branch joint ~ Farthest Indoor unit	$45\text{m} \leq b+c+d+e+f+g+p \leq 90\text{m}$: branch pipes (b, c, d, e, f, g) size must be increased by 1 grade	
Total length of extended pipe	If the size of pipe (main pipe), between the first branch joint and the outdoor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

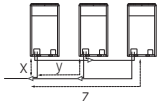
Note 2) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m, (If the height difference is over 40m, contact your local dealer for more information.)
but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 110m (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

Outdoor unit

H/R



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	$a+g+j \leq 200 \text{ m (220 m)}$	Equivalent length Y-joint: 0.5 m Distribution header: 1 m MCU: 1 m	
				Installing with MCU and Y-joint	$a+b+h+k \leq 200 \text{ m (220 m)}$		
		Total length of pipe	1000 m or less	Installing only with MCU	$a+b+c+d+e+f+g+h+i+j \leq 1000 \text{ m}$		
				Installing with MCU and Y-joint	$a+b+c+\dots+r \leq 1000 \text{ m}$		
	Outdoor unit ~ Outdoor unit (Module installation)	Pipe length	10 m or less	$x \leq 10 \text{ m}, y \leq 10 \text{ m}, z \leq 10 \text{ m}$			
		Equivalent length	13 m or less	$x \leq 13 \text{ m}, y \leq 13 \text{ m}, z \leq 13 \text{ m}$			
	MCU ~ Indoor unit	Pipe length	45 m or less	Installing only with MCU	$b+c \leq 45 \text{ m}, b+d \leq 45 \text{ m}, b+e \leq 45 \text{ m}, f \leq 45 \text{ m}, g+h \leq 45 \text{ m}, g+i \leq 45 \text{ m}, g+j \leq 45 \text{ m}$		
				Installing with MCU and Y-joint	$c+d, c+e, c+f, g, h+i, h+j, h+k, n, o, p, q, r \leq 45 \text{ m}$		
Maximum allowable height difference	Outdoor unit ~ Indoor unit	Pipe length	110 m / 110 m Note 1)	$H1 \leq 110 \text{ m / 110 m}$			
	Indoor unit ~ Indoor unit		40 m or less	$H2 \leq 40 \text{ m}$			
			But, when AM****NQDEH* / AM***JNV* is installed, H2 is 15 m or less.				
	Indoor unit ~ Indoor unit (in one MCU)		15 m or less	$H3 \leq 15 \text{ m}$			
	MCU ~ MCU		30 m or less	$H4 \leq 30 \text{ m}$			
Maximum allowable length after branch joint	First branch joint ~ Farthest Indoor unit	Pipe length	45 m or less	Installing only with MCU	$g+j \leq 45 \text{ m}$		
				Installing with MCU and Y-joint	$b+h+k \leq 45 \text{ m}$ $l+m+q \leq 45 \text{ m}$ $l+r \leq 45 \text{ m}$		
			45 ~ 90 m Note 2)	Required conditions must be satisfied			

10. Installation

Outdoor unit

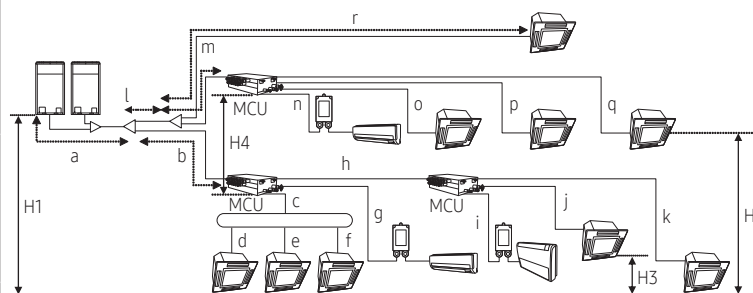
EEV Kit			Model name		Remarks
EEV kit ~ Indoor unit	Actual pipe length	2 m	MEV-E24SA	1 indoor	Apply to products without EEV (Wall mount & ceiling)
			MEV-E32SA		
		20 m or less	MXD-E24K132A	2 indoor	
			MXD-E24K200A		
			MXD-E32K200A		
			MXD-E24K232A	3 indoor	
			MXD-E24K300A		
			MXD-E32K222A		
			MXD-E32K300A		

※ Please refer to the EEV Kit manual.

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	$45\text{ m} \leq b+h+k, l+m+q, l+r \leq 90\text{ m}$: 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, $a+(b+l+m) \times 2+c+d+e+f+g+h+i+j+k+n+o+p+q+r \leq 1000\text{ m}$ If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is increased by 1 grade, $(a+b+l+m) \times 2+c+d+e+f+g+h+i+j+k+n+o+p+q+r \leq 1000\text{ m}$	
MCU ~ Each indoor unit	$c+d, c+e, c+f, g, h+i, h+j, h+k, n, o, p, q, r \leq 45\text{ m}$	
Difference between the distance of the outdoor unit to the farthest indoor unit and nearest indoor unit ≤ 45 $45(a+b+h+k) - (a+b+c+d) \leq 45$		

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 cannot 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)

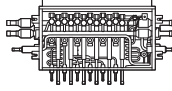
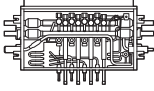
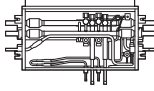
Note 5) In case of connecting two MCU ports with Y-joint, the indoor units cannot be combined to more than one.

10. Installation

Outdoor unit

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).

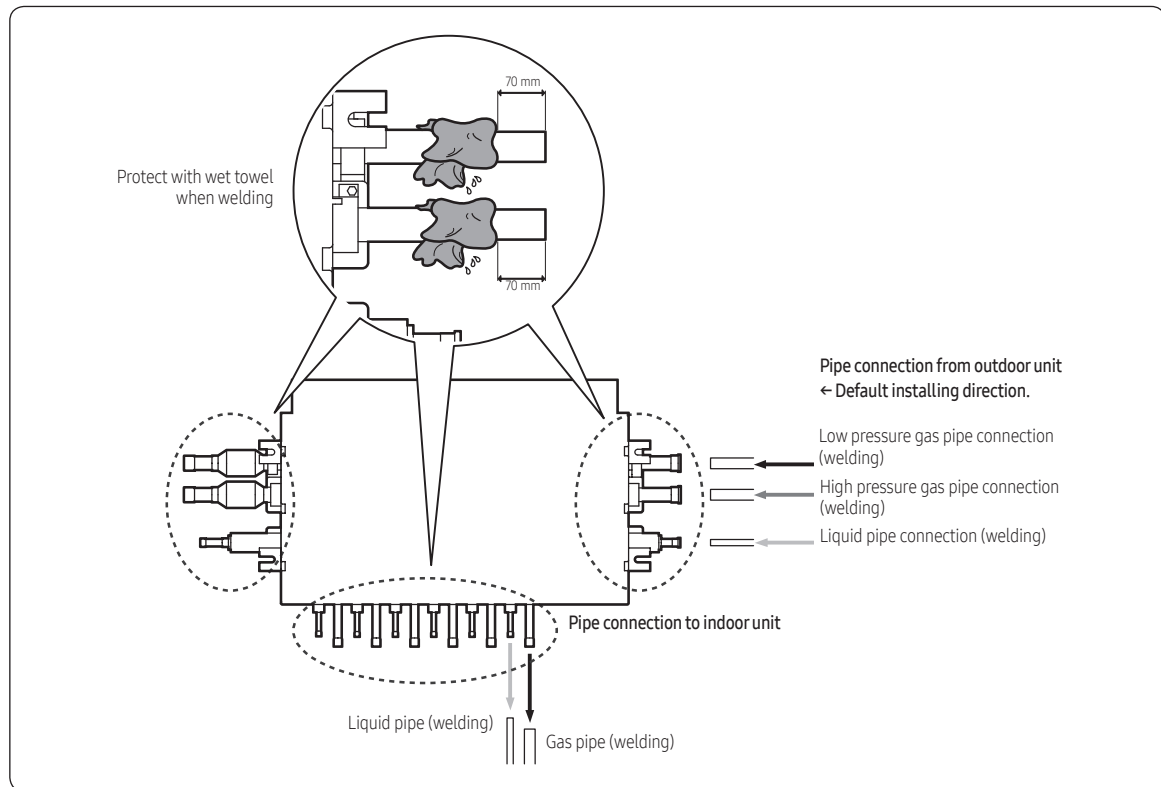
Installing the indoor units

Model	MCU-S6NEK2N	MCU-S4NEK3N	MCU-S2NEK2N	MCU-S1NEK1N
Example installing (Each port connection)				
Example installing (MCU series connection)				
Installing indoor units	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			This unit is only connectable for one port under 16 Kw This unit is impossible to connect MCU to MCU in series.
	S/W Option Default	S/W Option Combination of A+B port	S/W Option Combination of C+D port	
	S/W Option Combination of E+F port			
In case of MCU connection in series, the maximum capacity of indoor units in MCU series connection is 61.6 kW				

10. Installation

Outdoor unit

How to connect the pipes

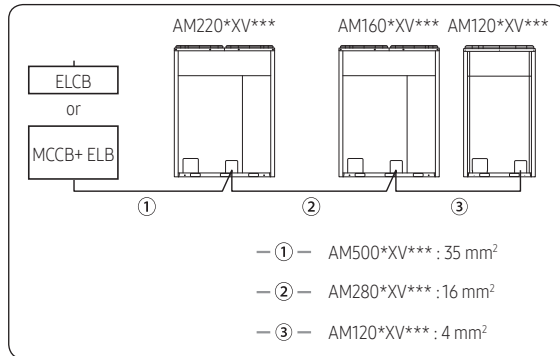


- ※ When installing MCU, use the pattern sheet for installation that is provided with the product.
- ※ When welding the gas pipes, protect the product with the flame-proof sheet.
- ※ When connecting the MCU with outdoor units, default direction is set in the MCU.
If installing opposite direction, weld the enclosed copper cap in each high pressure, low pressure and liquid pipes.

10. Installation

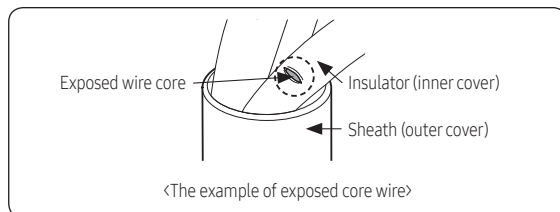
Outdoor unit

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



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.



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 S_{sc} is greater than or equal to $S_{sc}(*2)$ 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 S_{sc} greater than or equal to $S_{sc}(*2)$.
[$S_{sc}(*2)$]

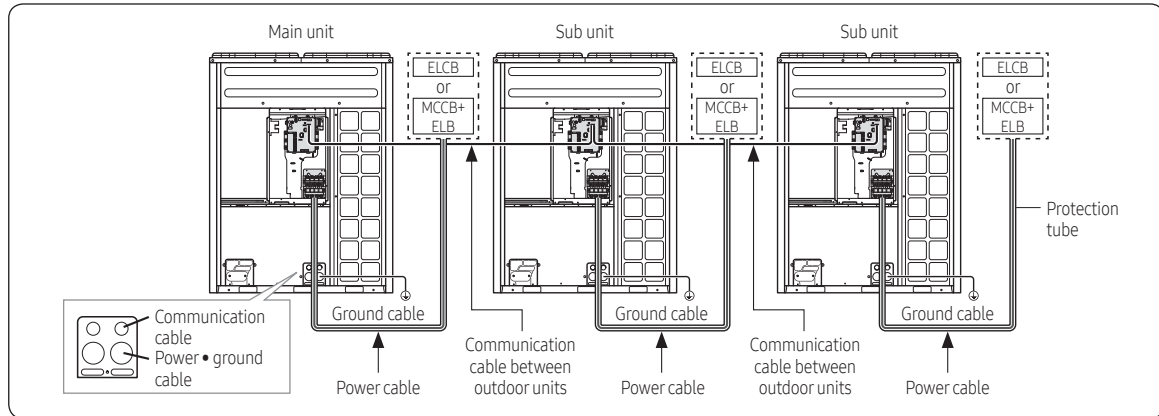
Model	$S_{sc}(MVA)$
AM080AXVGGR/EU	3.0
AM100AXVGGR/EU	3.4
AM120AXVGGR/EU	4.0
AM140AXVGGR/EU	4.4
AM160AXVGGR/EU	5.2
AM180AXVGGR/EU	6.4
AM200AXVGGR/EU	7.0
AM220AXVGGR/EU	7.4
AM240AXVGGR/EU	9.3
AM260AXVGGR/EU	10.2

Power and communication cable configuration

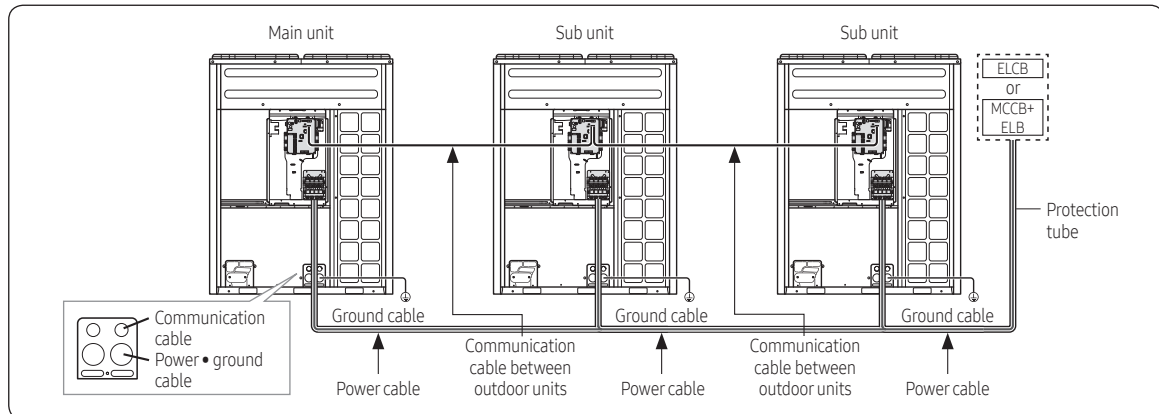
- Main power and the ground cable must be withdrawn through the knock-out hole on the bottom-right or right side of the cabinet.
- Withdraw the communication cable from the designated knock-out hole on the bottom-right side of the front part.
- Install the power and communication cable using separate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

Outdoor unit



◁When the module combination is in the tables of "Outdoor unit combination"▷

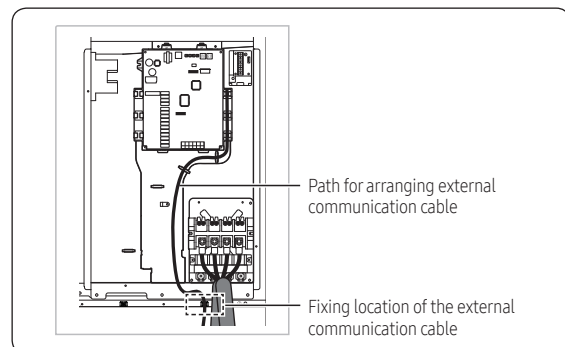


※ Power Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 66 / CENELEC: H07RN-F)

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

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



⚠ CAUTION

- Caution for perforating the knock-out hole
- Perforate a knock-out hole by punching it with a hammer.

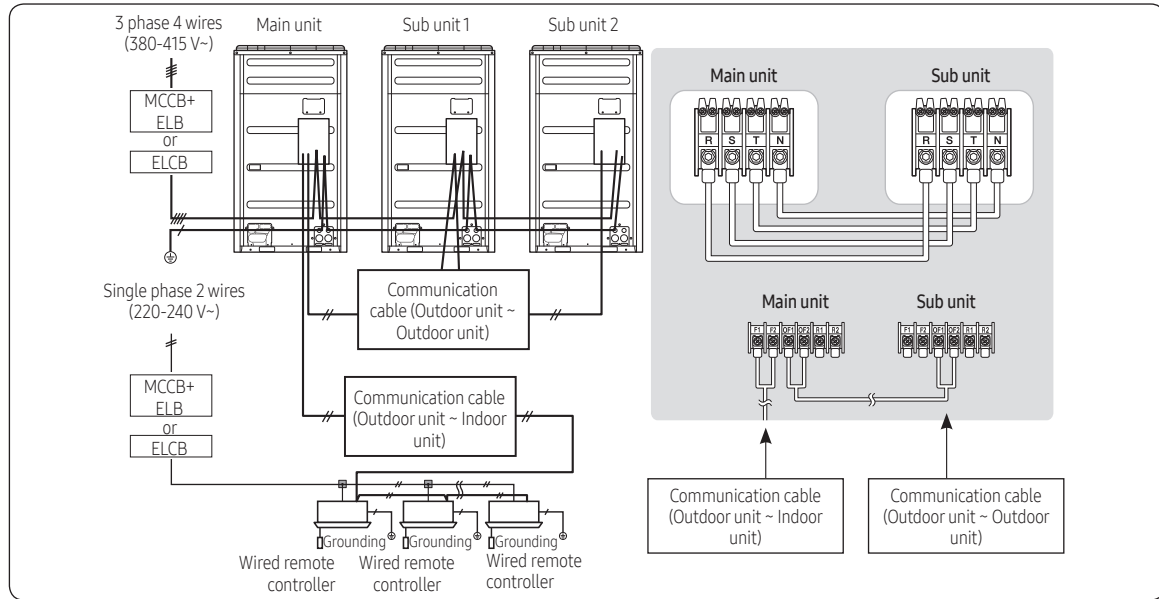
10. Installation

Outdoor unit

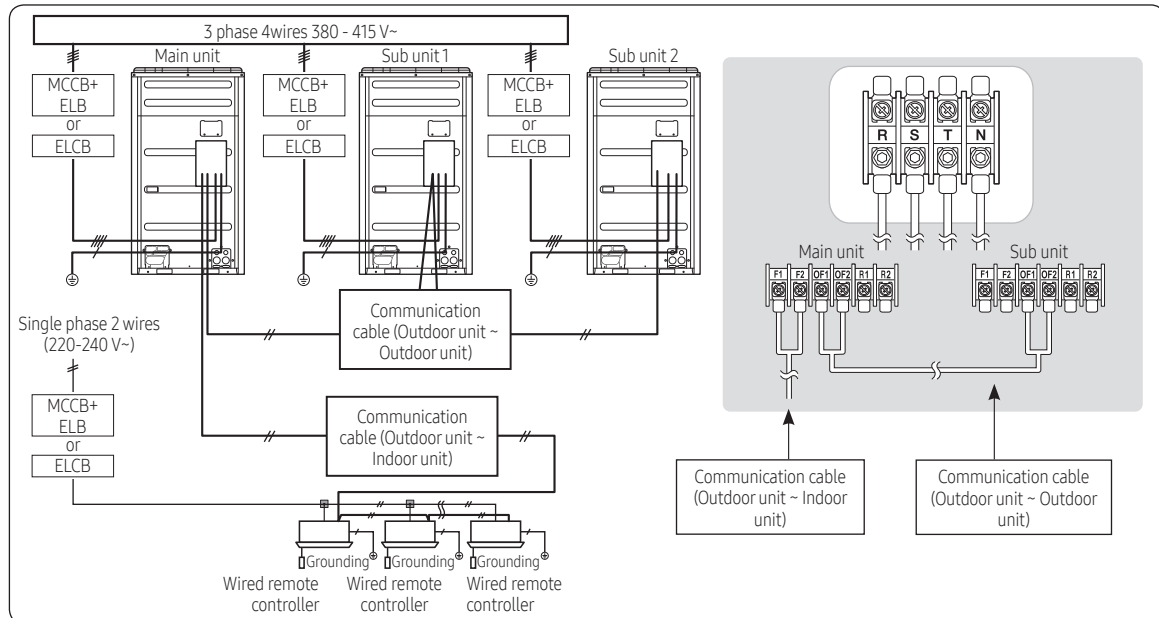
Power wiring diagram

Supplying 3 phase 4 wires (380-415 V~)

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



<When the module combination is not in the tables of "Outdoor unit combination">



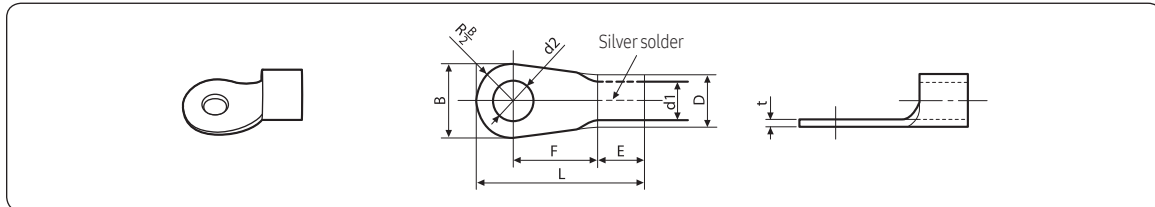
- Connect a power cable of the outdoor unit after checking that R-S-T-N (3 phase 4 wire) is properly connected. (If the 380-415 V power is supplied to the N phase, PCB and other electrical part will be damaged.)
 - Communication cable between indoor and outdoor units and communication cable between outdoor units has no polarity.
 - Arrange the cables with a cable tie.
- ※ ELCB and ELB must be installed since there is risk of electric shock or fire when they are not installed.

10. Installation

Outdoor unit

Selecting solderless ring terminal

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

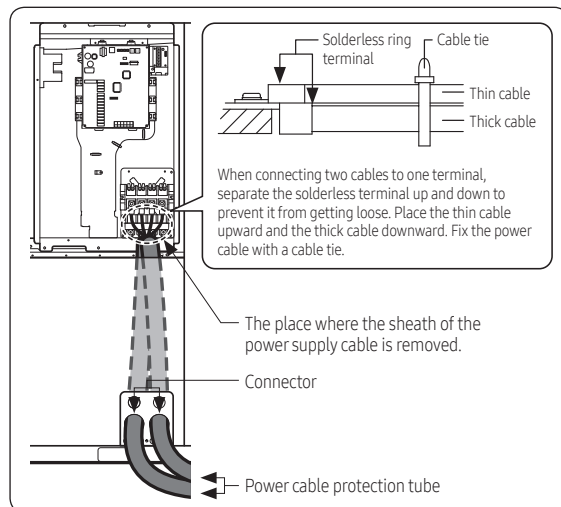


Nominal dimensions for cable (mm²)		4/6		10	16	25		35		50	70
Nominal dimensions for screw (mm)		4	8	8	8	8	8	8	8	8	8
B	Standard dimension (mm)	9.5	15	15	16	12	16.5	16	22	22	24
	Allowance (mm)	±0.2		±0.2	±0.2	±0.3		±0.3		±0.3	±0.4
D	Standard dimension (mm)	5.6	7.1	9	11.5	13.3		13.5	17.5	17.5	17.5
	Allowance (mm)	+0.3	+0.3	+0.3	+0.5	+0.5		+0.5	+0.5	+0.5	+0.5
d1	Standard dimension (mm)	3.4	4.5	5.8	7.7	9.4		11.4	13.3	13.3	13.3
	Allowance (mm)	±0.2	±0.2	±0.2	±0.2	±0.2		±0.3	±0.4	±0.4	±0.4
E	Min. (mm)	6	7.9	9.5	11	12.5		17.5	18.5	18.5	18.5
F	Min. (mm)	5	9	13	15	13	13	14	20	20	20
L	Max. (mm)	20	28.5	30	33	34		38	43	50	51
d2	Standard dimension (mm)	4.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	Allowance (mm)	+ 0.2	+ 0.4	+ 0.4	+ 0.4	+ 0.4		+ 0.4	+ 0.4	+ 0.4	+ 0.4
t	Min. (mm)	0.9	1.15	1.45	1.7	1.8		1.8	2.0	2.0	2.0

Connecting the power terminal

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

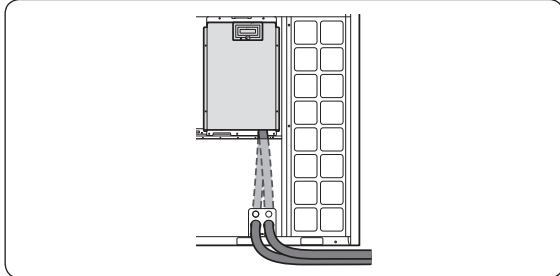
1 Front connection



10. Installation

Outdoor unit

1 Closing the cover

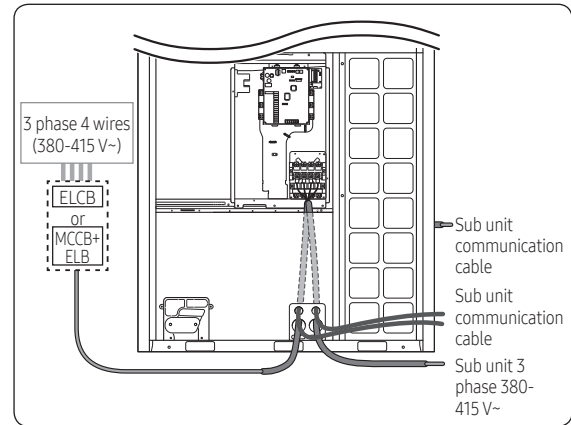


Screw	Tightening torque for terminal (N·m)	
M4	1.2~1.8	Single phase (220-240 V) power cable
M8	5.5~7.3	3 phase (380-415 V) power cable

CAUTION

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

Fixing the power cable



CAUTION

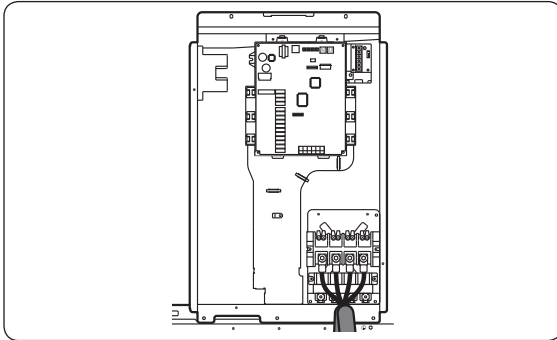
- Do not let the power cable come into contact with the pipes inside the outdoor unit. If the power supply cable touches the pipes, the vibration of the compressor is transferred to the pipes and can damage the power supply cables or pipes, creating the danger of fire or explosion.
- Make sure that the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

10. Installation

Outdoor unit

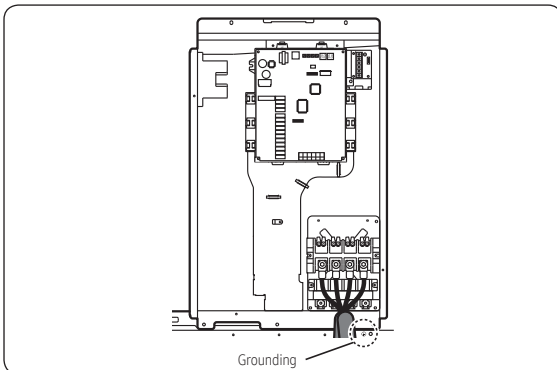
Connect the ring terminal of 3 phase cable

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



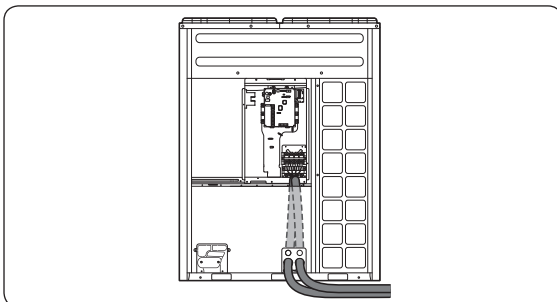
Fixing the ground cable

- Connect the ground cable to the grounding hole inside the power supply box.



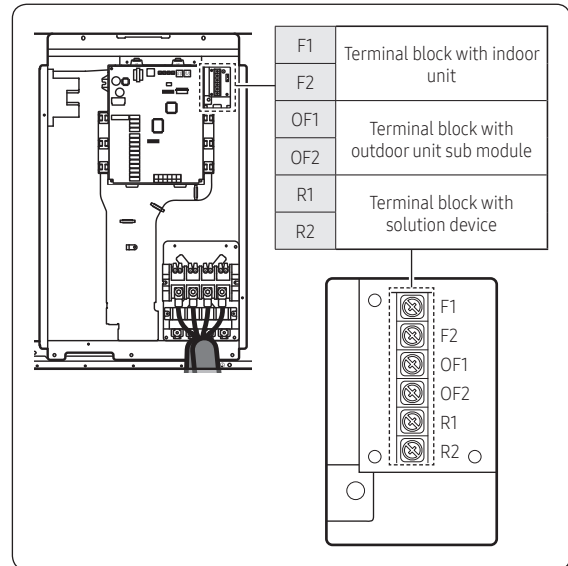
Withdrawing the power cable

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

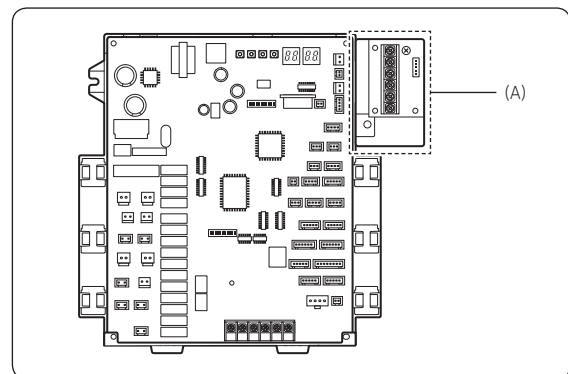


Installing the Solution device

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



Where to install the interface module



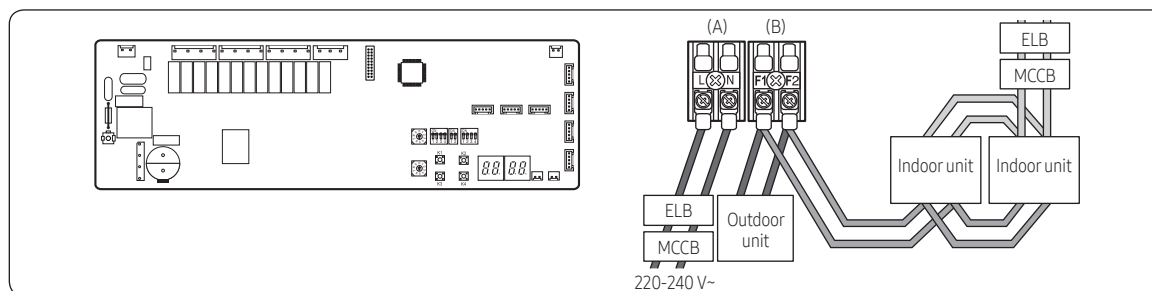
- Install the interface module in location (A), considering the installation conditions.
 - For details on how to install, refer to the interface module installation manual.

10. Installation

Outdoor unit

Connecting the MCU (MCU-S6NEK2N, MCU-S4NEK3N, MCU-S2NEK2N, MCU-S1NEK1N)

Example



- (A) Power must be supplied to the MCU separately from the outdoor unit.
- (B) Connect the communication cable of the outdoor unit (F1, F2) to the communication cable of the MCU (F1, F2)

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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	Cooling(Rated)	kW	5.08	7.10	8.86
		Heating(Rated)	kW	4.75	5.95	7.50
	Current	Minimum Ssc	MVA	3.0	3.4	4.0
		MCA	A	18.0	21.2	25.0
		MFA	A	25	32	32
Efficiency	EER		W/W	4.41	3.94	3.79
	COP		W/W	4.72	4.70	4.48
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	4.60 x 1	6.67 x 1	6.67 x 1
	Model Name		-	DS2GR7046FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	1	1	1
	Air Flow Rate		m³/min	164	181	196
			l/s	2,738	3,019	3,260
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 1	630 x 1	630 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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	7.0	7.0	7.0
			tCO ₂ e	14.62	14.62	14.62
Sound	Sound Pressure	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power		dB(A)	75	78	81
External Dimension	Net Weight		kg	199	211	211
	Shipping Weight		kg	213	225	225
	Net Dimensions (WxHxD)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	998 x 1,887 x 829	998 x 1,887 x 829	998 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14511
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination. These combinations are not certified according to the ECP VRF Programme rules.

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM022DN4FKG/EUx10	18HP	AM028DN4FKG/EUx6 + AM036DN4FKG/EUx10
10HP	AM022DN4FKG/EUx13	20HP	AM036DN4FKG/EUx15 + AM045DN4FKG/EUx1
12HP	AM022DN4FKG/EUx16	22HP	AM036DN4FKG/EUx9 + AM045DN4FKG/EUx7
14HP	AM022DN4FKG/EUx5 + AM028DN4FKG/EUx11	24HP	AM036DN4FKG/EUx2 + AM045DN4FKG/EUx14
16HP	AM028DN4FKG/EUx13 + AM036DN4FKG/EUx3	26HP	AM045DN4FKG/EUx12 + AM056DN4FKG/EUx4

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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	Cooling(Rated)	kW	11.71	12.41	12.79
		Heating(Rated)	kW	8.90	10.10	11.03
	Current	Minimum Ssc	MVA	4.4	5.2	6.4
		MCA	A	27.0	32.0	39.2
		MFA	A	32	40	50
Efficiency	EER		W/W	3.42	3.63	3.94
	COP		W/W	4.49	4.46	4.57
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	6.67 x 1	8.93 x 1	8.93 x 1
	Model Name		-	DS4GR7066FV* x 1	DS4GM7090FV* x 1	DS4GM7090FV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,400 x 1	1,400 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min	291	292	313
			l/s	4,852	4,866	5,209
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	8.0	10.5	10.5
			tCO ₂ e	16.70	21.92	21.92
Sound	Sound Pressure	Cooling	dB(A)	58	58	59
		Heating	dB(A)	61	61	63
	Sound Power		dB(A)	81	81	81
External Dimension	Net Weight		kg	237	268	274
	Shipping Weight		kg	254	285	291
	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 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14511
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination. These combinations are not certified according to the ECP VRF Programme rules.

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM022DN4FKG/EUx10	18HP	AM028DN4FKG/EUx6 + AM036DN4FKG/EUx10
10HP	AM022DN4FKG/EUx13	20HP	AM036DN4FKG/EUx15 + AM045DN4FKG/EUx1
12HP	AM022DN4FKG/EUx16	22HP	AM036DN4FKG/EUx9 + AM045DN4FKG/EUx7
14HP	AM022DN4FKG/EUx5 + AM028DN4FKG/EUx11	24HP	AM036DN4FKG/EUx2 + AM045DN4FKG/EUx14
16HP	AM028DN4FKG/EUx13 + AM036DN4FKG/EUx3	26HP	AM045DN4FKG/EUx12 + AM056DN4FKG/EUx4

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU
				-	-	-
				-	-	-
				-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
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	Cooling(Rated)	kW	17.42	20.34	23.68
		Heating(Rated)	kW	13.42	14.55	20.36
	Current	Minimum Ssc	MVA	7.0	7.4	9.3
		MCA	A	43.0	46.0	55.0
		MFA	A	63	63	63
Efficiency	EER		W/W	3.21	3.03	2.84
	COP		W/W	4.17	4.23	3.30
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	8.93 x 1	6.67 x 2	6.67 x 2
	Model Name		-	DS4GM7090FV* x 1	DS4GR7066FV* x 2	DS4GR7066FV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,400 x 1	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		m³/min	313	342	365
			l/s	5,209	5,698	6,089
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	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		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	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	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	40	40	40
Wiring connections	Transmission	Min.	mm ²	0.75	0.75	0.75
	Cable	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	10.5	10.5	14.0
			tCO ₂ e	21.92	21.92	29.23
Sound	Sound Pressure	Cooling	dB(A)	61	64	65
		Heating	dB(A)	63	65	67
	Sound Power		dB(A)	84	86	87
External Dimension	Net Weight		kg	274	309	332
	Shipping Weight		kg	291	326	349
	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 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- Specification comply with EN14511
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (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.
- 9) In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.
- 10) Recommended combination. These combinations are not certified according to the ECP VRF Programme rules.

Capacity	Indoor Units	Capacity	Indoor Units
8HP	AM022DN4FKG/EUx10	18HP	AM028DN4FKG/EUx6 + AM036DN4FKG/EUx10
10HP	AM022DN4FKG/EUx13	20HP	AM036DN4FKG/EUx15 + AM045DN4FKG/EUx1
12HP	AM022DN4FKG/EUx16	22HP	AM036DN4FKG/EUx9 + AM045DN4FKG/EUx7
14HP	AM022DN4FKG/EUx5 + AM028DN4FKG/EUx11	24HP	AM036DN4FKG/EUx2 + AM045DN4FKG/EUx14
16HP	AM028DN4FKG/EUx13 + AM036DN4FKG/EUx3	26HP	AM045DN4FKG/EUx12 + AM056DN4FKG/EUx4

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM260AXVGGR/EU	
				-	
				-	
				-	
Outdoor unit module 4				-	
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	
Mode			-	HEAT PUMP	
Performance	HP		HP	26	
	Capacity	Cooling(Rated)	kW	72.8	
		Heating(Rated)	kW	68.0	
		Heating(Max)	kW	81.9	
Maximum number of connectable indoor units			EA	47	
Total capacity of the connected Indoor Units		Min.	kW	36.4	
		Max.	kW	94.6	
Power	Power Input	Cooling(Rated)	kW	29.58	
		Heating(Rated)	kW	22.27	
	Current	Minimum Ssc	MVA	10.2	
		MCA	A	60.0	
		MFA	A	75	
Efficiency	EER		W/W	2.46	
	COP		W/W	3.05	
Casing	Material	Body	-	GI Steel Plate	
		Base	-	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	
	Material	Fin	-	Al	
		Tube	-	Cu	
	Fin Treatment		-	Anti-corrosion	
Compressor	Type		-	Inverter Scroll x 2	
	Output		kW x n	6.67 x 2	
	Model Name		-	DS4GR7066FV* x 2	
	Oil	Type	-	PVE	
		Initial charge	cc x n	1,100 x 2	
Fan	Type		-	Propeller	
	Discharge direction		-	Top	
	Quantity		EA	2	
	Air Flow Rate		m³/min	365	
			l/s	6,089	
	External Static Pressure	Max.	mmAq	8	
			Pa	80	
Fan Motor	Type		-	BLDC Motor	
	Output		W x n	620 x 2	
Piping Connections	Liquid Pipe		Type	Braze connection	
			Φ, mm (inch)	19.05 (3/4)	
	Gas Pipe		Type	Braze connection	
			Φ, mm (inch)	34.92 (1-3/8)	
	High pressure Gas Pipe(HR Only)		Type	Braze connection	
			Φ, mm (inch)	28.58 (1-1/8)	
Heat Insulation		-	Both liquid and gas pipes		

11. Specification for combinations with more than 8 indoor units

Premium energy efficiency

Model Name				AM260AXVGGR/EU
	Outdoor unit module 1			-
	Outdoor unit module 2			-
	Outdoor unit module 3			-
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90
	Total piping length (System)	Max.	m	1,000
	Level difference (ODU in highest position)	Max.	m	110
	Level difference	Max.	m	110
	Level difference (IDU-IDU)	Max.	m	40
Wiring connections	Transmission	Min.	mm ²	0.75
	Cable	Remark	-	F1, F2
	Power supply intake		-	Both indoor and outdoor unit
Refrigerant	Type		-	R410A
	Factory Charging		kg	14.0
			tCO ₂ e	29.23
Sound	Sound Pressure	Cooling	dB(A)	65
		Heating	dB(A)	67
	Sound Power		dB(A)	87
External Dimension	Net Weight		kg	332
	Shipping Weight		kg	349
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829
Operating Temp. Range	Cooling		°C	-5 ~ 50
	Heating		°C	-25 ~ 24



NOTE

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16HP	AM028DN4FKG/EUx13 + AM036DN4FKG/EUx3	26HP	AM045DN4FKG/EUx12 + AM056DN4FKG/EUx4



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