SAMSUNG

VRF

Technical Data Book

DVM S2 for Europe (R410A, 50Hz, Essential)



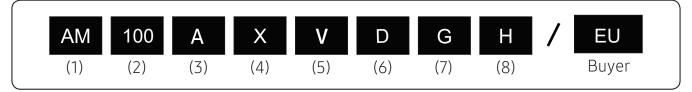
Model : Essential Type

Version	Modification	Date	Remark
Ver.1.0	Release DVM S2 (R410A, 50Hz, Essential) for Europe TDB	20.12.02	
Ver.2.0	Updated all contents (Final Specification)	21.02.05	
Ver.3.0	Updated the Non-ducted spec in Specification page	21.07.05	

Nomenclature

Outdoor Unit

Model Name



(1) Classification

AM	

DVM

V Inverter		
	V	Inverter

(2) Capacity

x 1/10 HP (3 digits)

(6) Feature 2

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

(3) Version

А	2021

(7) Rating Voltage

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

(4) Product Type

Х	Outdoor Unit
Ν	Indoor Unit

(8) Mode

Н	Heat Pump
R	Heat Recovery

Features & Benefits



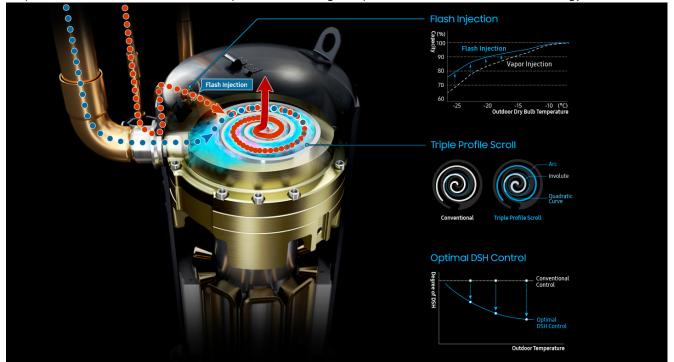
Perfectly compatible with WindFree™



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

 Other Company A 12HP+22HP
 Other Company B 12HP+22HP
 Samsung DVM S2 34HP

 Jack
 12HP+22HP
 34HP

 Jack
 Jack
 14HP

 Jack
 Jack
 14HP

installation.

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

Contents

1. Combination Table / Design Procedure & Combination Ratio	7
2. Specification	13
3. Electric Characteristics	25
4. Dimensional Drawing	26
5. Center of Gravity	29
6. Electrical Wiring Diagrams	32
7. Sound Data	34
8. Operation Range	39
9. Piping Diagram	41
10. Installation	43

1. Combination Table

Essential

System Model			Capacity (HP)					
Сара	Model Name	Number of individual outdoor units	10	12	14	16	18	
10HP	AM100AXVDGH/EU	1	1					
12HP	AM120AXVDGH/EU	1		1				
14HP	AM140AXVDGH/EU	1			1			
16HP	AM160AXVDGH/EU	1				1		
18HP	AM180AXVDGH/EU	1					1	
20HP	AM200AXVDGH1EU	2	2					
22HP	AM220AXVDGH1EU	2	1	1				
24HP	AM240AXVDGH1EU	2	1		1			
26HP	AM260AXVDGH1EU	2	1			1		
28HP	AM280AXVDGH1EU	2		1		1		
30HP	AM300AXVDGH1EU	2		1			1	
32HP	AM320AXVDGH1EU	2				2		
34HP	AM340AXVDGH1EU	2				1	1	
36HP	AM360AXVDGH1EU	2					2	
38HP	AM380AXVDGH1EU	3	1	1		1		
40HP	AM400AXVDGH1EU	3	1	1			1	

- 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. $0.5 \times \Sigma$ (Outdoor unit capacity) \leq Total capacity of the connected indoor units $\leq 1.3 \times \Sigma$ (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 X X X NQDEH X X, AM X X JNVDKH X X) can be connected.

1. Combination Table

External Appearance

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
10 12 14	AM100AXVDGH/EU AM120AXVDGH/EU AM140AXVDGH/EU		26 28 30	AM260AXVDGH1EU AM280AXVDGH1EU AM300AXVDGH1EU	
16 18	AM160AXVDGH/EU AM180AXVDGH/EU		32 34 36	AM320AXVDGH1EU AM340AXVDGH1EU AM360AXVDGH1EU	
20 22 24	AM200AXVDGH1EU AM220AXVDGH1EU AM240AXVDGH1EU		38 40	AM380AXVDGH1EU AM400AXVDGH1EU	

Combination Ratio (Connection Ratio)

Definition of Combination Ratio, CR

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

Constraints of Allowable Combination Ratio

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

Design & Selection Procedure

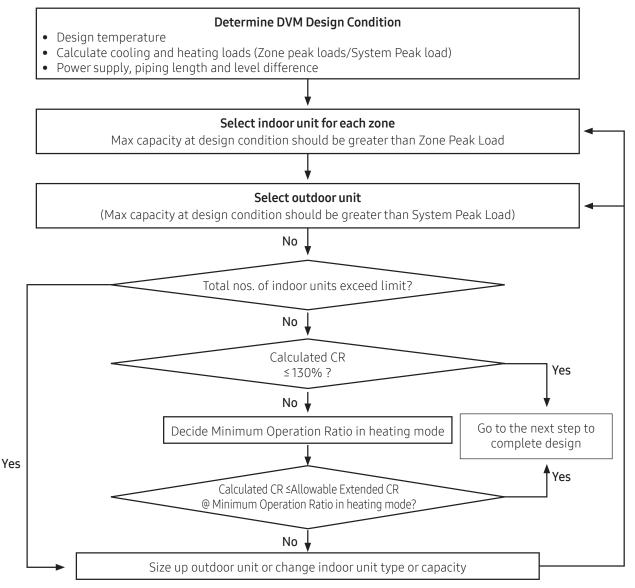


Fig. 1 Design & Selection Procedure for Extended Combination Ratio

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
mile	Music Room	Class room	TOLAL				
09:00	8.4	8.0	8.4	8.0	8.4	8.6	49.8
12:00	9.2	8.8	10.8	8.6	10.8	9.8	58.0
14:00	10.0	9.6	9.6	9.6	11.4	10.8	61.0
16:00	11.0	10.6	8.8	10.8	9.6	9.6	60.4
18:00	9.4	9.0	8.8	9.0	9.0	8.4	53.6

Table 1. Example of System Peak loads

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

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

Cooling Operation Only

E

NOTE

NOTE

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

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

Table 2. Allowable CR in only cooling operation

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

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

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

• Heat Recovery system, H/R

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

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	All capacities						
10%	131%	145%	135%					
20%	137%	153%	141%					
30%	149%	151%						

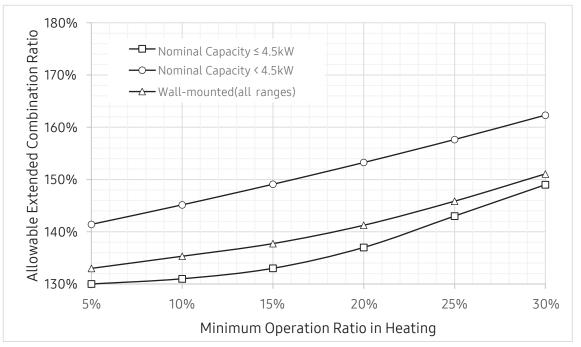


Fig. 2 Allowable CR with respect to indoor unit type as operation ratio increases

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%.

Model Name				AM100AXVDGH/EU	AM120AXVDGH/EU	AM140AXVDGH/EU
	Outdoor unit module	1		-	-	-
	Outdoor unit module			-	-	-
	Outdoor unit module			_	-	-
	Outdoor unit module					
Power Supply		4	Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			ω, π, ν, ΠΖ	HEAT PUMP	5, 4, 380-415, 50 HEAT PUMP	5, 4, 380-415, 50 HEAT PUMP
	HP		-			
Performance			HP	10	12	14
	Capacity	Cooling(Rated)	kW	28.0	33.6	40.0
		Heating(Rated)	kW	28.0	33.6	40.0
		Heating(Max)	kW	31.5	37.8	45.0
	nber of connectable inc		EA	18	21	26
otal capacity	of the connected Indoo		kW	14.0	16.8	20.0
Units	T	Max.	kW	36.4	43.7	52.0
Current	Current Input	Cooling(Rated)	A	20.50	22.01	28.60
	(Ducted)	Heating(Rated)	A	14.34	16.45	20.91
	Current Input	Cooling(Rated)	A	16.98	20.28	27.11
	(Non-Ducted)	Heating(Rated)	A	13.38	16.30	20.35
	Current	Minimum Ssc	MVA	3.7	4.0	4.6
		MCA	A	23.0	25.0	29.0
		MFA	A	32	32	32
Efficiency	SEER		W/W	6.00	6.40	6.20
	SCOP		W/W	4.10	4.30	4.10
	ns.c	— Ducted	%	237	253	245
	ns.h		%	161	169	161
	SEER		W/W	6.72	6.79	6.49
	SCOP		W/W	4.10	4.15	4.04
	ŋs.c		%	265.8	268.6	256.6
	ŋs.h		%	161	163	158.6
	Pdesignh		kW	16.3	18.8	20.3
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	6.67 x 1	6.67 x 1	6.67 x 1
	Model Name		-	DS4GR7066FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,100 x 1	1,100 x 1
an	Туре		_	Propeller	Propeller	Propeller
	Discharge direction		_	Тор	Тор	Тор
	Quantity		EA	1	1	1
			m³/min	167	196	210
	Air Flow Rate				140	210
			l/s	2,779	3,260	3,500
	External Static	Max.	mmAq	11	11	8
	Pressure	THUX.	Pa	110	110	80
an Motor			i a			BLDC Motor
an Motor	Type		14/ 24 - 2	BLDC Motor	BLDC Motor	
	Output		Wxn	630 x 1	630 x 1	630 x 1
Piping	Liquid Pipe		Туре	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)
	Gas Pipe		Type Φ, mm (inch)	Braze connection 22.22 (7/8)	Braze connection 28.58 (1-1/8)	Braze connection 28.58 (1-1/8)
			Ψ, ΠΠ (Π(Π)	LL.LL (1/0)	20.00 (1-1/0)	20.00 (1=1/0)

Essential

Model Name				AM100AXVDGH/EU	AM120AXVDGH/EU	AM140AXVDGH/EU	
	Outdoor unit module 1			-	-	-	
	Outdoor unit module 2			-	-	-	
	Outdoor unit module 3			-	-	-	
	Outdoor unit module 4			-	-	-	
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	
Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90	
	Total piping length (System)	Max.	m	1,000	1,000	1,000	
	Level difference (ODU in highest position)	Max.	m	110	110	110	
	Level difference (IDU in highest position)	Max.	m	110	110	110	
	Level difference (IDU-IDU) Max.		m	50	50	50	
Wiring	Transmission	Min.	MM ²	0.75	0.75	0.75	
connections	Cable	Remark		F1, F2	F1, F2	F1, F2	
	Power supply intake		_	Both indoor and outdoor	Both indoor and outdoor	Both indoor and outdoor	
	-			unit	unit	unit	
Refrigerant	Туре		-	R410A	R410A	R410A	
	Factory Charging		kg	5.5	7.0	7.0	
		T	tCO2e	11.48	14.62	14.62	
Sound	Sound Pressure	Cooling	dB(A)	56	61	63	
		Heating	dB(A)	60	63	65	
	Sound Power		dB(A)	78	81	85	
External	Net Weight		kg	185	205	207	
Dimension	Shipping Weight		kg	199	219	221	
	Net Dimensions (WxHxE))	mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765	
	Shipping Dimensions (W	/xHxD)	mm	998 x 1,887 x 829	998 x 1,887 x 829	998 x 1,887 x 829	
Operating	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	

- NOTEE
 Specification may be subject to change without prior notice.
 Specification comply with EN14825 and Eurovent test condition.
 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 70°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.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a batained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level sund pressure level
 Reference acoustic pressure level
 Beference acoustic pressure level
 Reference acoustic pressure level
 Sound power level
 Reference acoustic pressure level
 Reference acoustic pressure level
 Sound avalues of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
 If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 PDM kit Pressure Drop Modulation kit
 When the outdoor unit is blow the indoor unit & the level differences are 40m or more, contact your local dealer for
- 10) Recommended combination * Ducted

* Ducted				* Non-duc	ted		
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2	16HP	AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	IZTIF	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2	18HP	AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5				AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

Model Name				AM160AXVDGH/EU	AM180AXVDGH/EU	AM200AXVDGH1EU
	Outdoor unit module 1			-	-	AM100AXVDGH/EU
	Outdoor unit module 2			-	-	AM100AXVDGH/EU
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	_
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	16	18	20
renormance	Capacity	Cooling(Rated)	kW	45.0	50.4	56.0
	Capacity	Heating(Rated)	kW	45.0	50.4	56.0
		Heating(Max)	kW	50.4	56.7	63.0
Maximum nun	nber of connectable indoc	~	EA	29	32	36
	of the connected Indoor	Min.	kW	22.5	25.2	28.0
	or the connected mooor	Max.	kW	58.5	65.5	72.8
Units Current	Current Input	Cooling(Rated)	A	31.04	37.61	41.00
Current	Current Input		A	22.38	24.75	28.68
	(Ducted)	Heating(Rated)				
	Current Input	Cooling(Rated)	A	31.04	37.25	33.96
	(Non-Ducted)	Heating(Rated)	Α	21.56	24.91	26.76
	Current	Minimum Ssc	MVA	5.2	6.3	7.4
		MCA	A	32.0	39.2	46.0
	CEED	MFA	A	40	50	63
Efficiency	SEER	_	W/W	6.30	5.90	-
	SCOP	Ducted	W/W	4.20	4.10	-
	ŋs.c	_	%	249	233	-
	ŋs.h		%	165	161	-
	SEER		W/W	6.63	6.19	-
	SCOP	Non Ducted	W/W	4.09	4.04	-
	ŋs.c	Ducted	%	262.2	244.6	-
	ŋs.h		%	160.6	158.6	-
	Pdesignh		kW	24	26.5	32.6
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
2		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 2
	Output		kW x n	8.93 x 1	8.93 x 1	(6.67 x 1) x 2
	Model Name		-	DS4GM7090FV* x 1		(DS4GR7066FV* x 1) x 2
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	1,400 x 1	1,400 × 1	(1,100 x 1) x 2
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min	303	324	167 x 2
	All I tow Rate		l/s	5,052	5,401	2,779 x 2
	External Statia	Max				
	External Static	Max.	mmAq	11	11	11
Fan Matai	Pressure		Pa	110 DLDG Mater	110 DLDC Mataz	110 DLDC Matar
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	620 x 2	620 x 2	(630 x 1) x 2
Piping	Liquid Pipe		Туре	Braze connection	Braze connection	Braze connection
Connections			Φ,mm(inch)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe		Туре	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

Essential

Model Name				AM160AXVDGH/EU	AM180AXVDGH/EU	AM200AXVDGH1EU	
	Outdoor unit module 1			-	-	AM100AXVDGH/EU	
	Outdoor unit module 2			-	-	AM100AXVDGH/EU	
	Outdoor unit module 3			-	-	-	
	Outdoor unit module 4			-	-	-	
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	
Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90	
	Total piping length (System)	Max.	m	1,000	1,000	1,000	
	Level difference (ODU in highest position)	Max.	m	110	110	110	
	Level difference (IDU in highest position)	Max.	m	110	110	110	
	Level difference (IDU-IDU)	Max.	m	50	50	50	
Wiring	Transmission	Min.	mm²	0.75	0.75	0.75	
connections	Cable	Remark	-	F1, F2	F1, F2	F1, F2	
	Power supply intake		_	Both indoor and outdoor	Both indoor and outdoor	Both indoor and outdoor	
				unit	unit	unit	
Refrigerant	Туре		-	R410A	R410A	R410A	
	Factory Charging		kg	8.0	8.0	5.5 x 2	
		L	tCO2e	16.70	16.70	22.97	
Sound	Sound Pressure	Cooling	dB(A)	60	61	59	
		Heating	dB(A)	62	64	63	
	Sound Power		dB(A)	81	83	81	
External	Net Weight		kg	242	242	185 x 2	
Dimension	Shipping Weight		kg	259	259	199 x 2	
	Net Dimensions (WxHxD))	mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	(930 x 1,695 x 765) x 2	
	Shipping Dimensions (W	/xHxD)	mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	(998 x 1,887 x 829) x 2	
Operating	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	
Temp. Range	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.
 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 70°CDB, 6°CWB
 Equivalent refrigerant pipe length Sm., Level differences 0m
 Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a babained in an anechoic room.
 Sound pressure level is a lealtive value, depending on the distance and acoustic environment.
 Sound pressure level is an absolute value that a sound source generates.
 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 acoustic now restret.
 3 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

 81 If outdoor unit is located in a higher position than indoor unit, level differences 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
 Whon the outdoor unit is blow the indoor unit, level differences are 40m or more, contact your local dealer for more information.
 PDM kit: Pressure D
- 10) Recommended combination

* Ducted				* Non-duct	ed		
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2	16HP	AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	12HP	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2	18HP	AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5			14HP	AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

Model Name				AM220AXVDGH1EU	AM240AXVDGH1EU	AM260AXVDGH1EU
	Outdoor unit module 1			AM100AXVDGH/EU	AM100AXVDGH/EU	AM100AXVDGH/EU
	Outdoor unit module 2			AM120AXVDGH/EU	AM140AXVDGH/EU	AM160AXVDGH/EU
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			_		
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			Ø, #, V, HZ	HEAT PUMP	HEAT PUMP	HEAT PUMP
	HP		- HP	22		
Performance		Caaling(Datad)			24	26
	Capacity	Cooling(Rated)	kW	61.6	68.0	73.0
		Heating(Rated)		61.6	68.0	73.0
Marianian	abor of concertable index	Heating(Max)	kW	69.3	76.5	81.9
	nber of connectable indoo	1	EA	40	43	47
	of the connected Indoor	Min.	kW	30.8	34.0	36.5
Units	-	Max.	kW	80.1	88.4	94.9
Current	Current Input	Cooling(Rated)	A	42.51	49.10	51.54
	(Ducted)	Heating(Rated)	A	30.79	35.25	36.72
	Current Input	Cooling(Rated)	А	37.26	44.09	48.02
	(Non-Ducted)	Heating(Rated)	A	29.68	33.73	34.94
	Current	Minimum Ssc	MVA	7.7	8.3	8.9
		MCA	А	48.0	52.0	55.0
		MFA	А	63	63	63
Efficiency	SEER		W/W	-	-	-
	SCOP	Dueted	W/W	-	-	-
	ηs.c	Ducted	%	-	-	-
	ηs.h		%	-	-	-
	SEER		W/W	-	-	-
	SCOP	_	W/W	-	-	-
	ns.c	-Non_Ducted	%	_	-	-
	ŋs.h	-	%	-	-	_
	Pdesignh		kW	35.1	36.6	40.3
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
casing	materiat	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat	Туре	Dase	-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	AL	Al
Exchanger	Materiat	Tube		Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	
<u> </u>			-			Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	(6.67 x 1) x 2	(6.67 x 1) x 2	(6.67 x 1) x 1 + (8.93 x 1) x 1
	Model Name		-	(DS4GR7066FV* x 1) x 2	(DS4GR7066FV* x 1) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GM7090FV* x 1) x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 2	(1,100 x 1) x 2	(1,100 x 1) x 1 + (1,400 x 1) : 1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	2	2	3
	Air Flow Rate		m³/min	167 x 1 + 196 x 1	167 x 1 + 210 x 1	167 x 1 + 303 x 1
			l/s	2,779 x 1 + 3,260 x 1	2,779 x 1 + 3,500 x 1	2,779 x 1 + 5,052 x 1
	External Static	Max.	mmAq	11	11	11
	Pressure		Pa	110	110	110
	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor			Wxn	(630 x 1) x 2	(630 x 1) x 2	(630 x 1) x 1 + (620 x 2) x 1
Fan Motor	Output		V V / 11	(000 × 1) × 2		
	Output		Typo	Brazo connection	Brazo connection	Brazo connection
Piping	Output Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Piping	Liquid Pipe		Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Fan Motor Piping Connections			~ ~ ~			

Essential

Model Name				AM220AXVDGH1EU	AM240AXVDGH1EU	AM260AXVDGH1EU	
	Outdoor unit module 1			AM100AXVDGH/EU	AM100AXVDGH/EU	AM100AXVDGH/EU	
	Outdoor unit module 2			AM120AXVDGH/EU	AM140AXVDGH/EU	AM160AXVDGH/EU	
	Outdoor unit module 3			-	-	-	
	Outdoor unit module 4			-	-	-	
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	
Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90	
	Total piping length (System)	Max.	m	1,000	1,000	1,000	
	Level difference (ODU in highest position)	Max.	m	110	110	110	
	Level difference (IDU in highest position)	Max.	m	110	110	110	
	Level difference (IDU-IDU)	Max.	m	50	50	50	
Wiring	Transmission	Min.	mm²	0.75	0.75	0.75	
connections	Cable	Remark	-	F1, F2	F1, F2	F1, F2	
	Power supply intake		_	Both indoor and outdoor	Both indoor and outdoor	Both indoor and outdoor	
				unit	unit	unit	
Refrigerant	Туре		-	R410A	R410A	R410A	
	Factory Charging		kg	5.5 x 1 + 7.0 x 1	5.5 x 1 + 7.0 x 1	5.5 x 1 + 8.0 x 1	
		1	tCO2e	26.10	26.10	28.19	
Sound	Sound Pressure	Cooling	dB(A)	62	64	61	
		Heating	dB(A)	65	66	64	
	Sound Power		dB(A)	83	86	83	
External	Net Weight		kg	185 x 1 + 205 x 1	185 x 1 + 207 x 1	185 x 1 + 242 x 1	
Dimension	Shipping Weight		kg	199 x 1 + 219 x 1	199 x 1 + 221 x 1	199 x 1 + 259 x 1	
	Net Dimensions (WxHxD))	mm	(930 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	
	Shipping Dimensions (W	/xHxD)	mm	(998 x 1,887 x 829) x 1 + (998 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (998 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	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	

- NOTEE
 Specification may be subject to change without prior notice.
 Specification comply with EN14825 and Eurovent test condition.
 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 70°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.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a batained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level sund pressure level
 Reference acoustic pressure level
 Beference acoustic pressure level
 Reference acoustic pressure level
 Sound power level
 Reference acoustic pressure level
 Reference acoustic pressure level
 Sound avalues of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
 If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 PDM kit Pressure Drop Modulation kit
 When the outdoor unit is blow the indoor unit & the level differences are 40m or more, contact your local dealer for
- 10) Recommended combination * Ducted

* Ducted				* Non-duc	ted		
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2		AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	12116	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2	18HP	AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5				AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

Model Name				AM280AXVDGH1EU	AM300AXVDGH1EU	AM320AXVDGH1EU	
	Outdoor unit module 1			AM120AXVDGH/EU	AM120AXVDGH/EU	AM160AXVDGH/EU	
	Outdoor unit module 2			AM160AXVDGH/EU	AM180AXVDGH/EU	AM160AXVDGH/EU	
	Outdoor unit module 3			-	-	-	
	Outdoor unit module 4			-	-		
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	
Performance	HP		HP	28	30	32	
renormance	Capacity	Cooling(Rated)	kW	78.6	84.0	90.0	
	Capacity	Heating(Rated)	kW	78.6	84.0	90.0	
		Heating(Max)	kW	88.2	94.5	100.8	
Maximum num	hber of connectable indoo		EA	51	54	58	
	of the connected Indoor	Min.	kW	39.3	42.0	45.0	
	or the connected indoor	Max.	kW	102.2	109.2	117.0	
Units Current	Current Input	Cooling(Rated)	A	53.05	59.62	62.08	
Current	Current Input	Heating(Rated)	A	38.83	41.20	44.76	
	(Ducted)	•					
	Current Input	Cooling(Rated) Heating(Rated)	A	51.32 37.86	57.53 41.21	62.08 43.12	
	(Non-Ducted)	Minimum Ssc	A MVA	9.2	10.3	43.12	
	Current	-					
		MCA	A	57.0	64.2 75	64.0	
Efficience	SEER	MFA		63		75	
Efficiency			W/W	-	-	-	
	SCOP	– Ducted	W/W				
	ŋs.c	_	%	-	-	-	
	ŋs.h		%	-	-	-	
	SEER	_	W/W	-	-	-	
	SCOP	Non_Ducted	W/W	-	-	-	
	ŋs.c	_	%	-	-	-	
	ŋs.h		%	-	-	-	
	Pdesignh		kW	42.8	45.3	48	
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
	-	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Heat	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube	
Exchanger	Material	Fin	-	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Туре		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2	
	Output		kW x n	(6.67 x 1) x 1 + (8.93 x 1) x 1	(6.67 x 1) x 1 + (8.93 x 1) x 1	(8.93 x 1) x 2	
	Model Name		-	(DS4GR7066FV* x 1) x 1 +	(DS4GR7066FV* x 1) x 1 +	(DS4GM7090FV* x 1) :	
		1		(DS4GM7090FV* x 1) x 1	(DS4GM7090FV* x 1) x 1	2	
	Oil	Туре	-	PVE	PVE	PVE	
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,400 x 1) x	(1,100 x 1) x 1 + (1,400 x 1) x	(1,400 x 1) x 2	
	Туре			Descalle	Descaller	-	
an	×1		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Тор	Тор	Тор	
	Quantity		EA	5	3	4	
	Air Flow Rate		m³/min	196 x 1 + 303 x 1	196 x 1 + 324 x 1	303 x 2	
			l/s	3,260 x 1 + 5,052 x 1	3,260 x 1 + 5,401 x 1	5,052 x 2	
	External Static	Max.	mmAq	11	11	11	
	Pressure		Pa	110	110	110	
an Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output		Wxn	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2	
Piping	Liquid Pipe		Туре	Braze connection	Braze connection	Braze connection	
iping	Eiduid Libe		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	
Connections			\$, mm (men)	17.00(0/4/			
Connections	Gas Dipo		Typo	Brazo connection	Brazo connection	Brazo connection	
Connections	Gas Pipe		Type Φ,mm(inch)	Braze connection 34.92 (1-3/8)	Braze connection 34.92 (1-3/8)	Braze connection 34.92 (1-3/8)	

Essential

Model Name				AM280AXVDGH1EU	AM300AXVDGH1EU	AM320AXVDGH1EU	
	Outdoor unit module 1			AM120AXVDGH/EU	AM120AXVDGH/EU	AM160AXVDGH/EU	
	Outdoor unit module 2			AM160AXVDGH/EU	AM180AXVDGH/EU	AM160AXVDGH/EU	
	Outdoor unit module 3			-	-	-	
	Outdoor unit module 4			-	-	-	
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	
Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90	
	Total piping length (System)	Max.	m	1,000	1,000	1,000	
	Level difference (ODU in highest position)	Max.	m	110	110	110	
	Level difference (IDU in highest position)	Max.	m	110	110	110	
	Level difference (IDU-IDU)	Max.	m	50	50	50	
Wiring	Transmission Min.		mm ²	0.75	0.75	0.75	
connections	Cable	Remark	-	F1, F2	F1, F2	F1, F2	
	Power supply intake		_	Both indoor and outdoor	Both indoor and outdoor	Both indoor and outdoor	
				unit	unit	unit	
Refrigerant	Туре		-	R410A	R410A	R410A	
	Factory Charging		kg	7.0 x 1 + 8.0 x 1	7.0 x 1 + 8.0 x 1	8.0 x 2	
		T	tCO2e	31.32	31.32	33.41	
Sound	Sound Pressure	Cooling	dB(A)	64	64	63	
		Heating	dB(A)	66	67	65	
	Sound Power		dB(A)	84	85	84	
External	Net Weight		kg	205 x 1 + 242 x 1	205 x 1 + 242 x 1	242 x 2	
Dimension	Shipping Weight		kg	219 x 1 + 259 x 1	219 x 1 + 259 x 1	259 x 2	
	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	(1,295 x 1,695 x 765) x 2	
	Shipping Dimensions (W	xHxD)	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	(1,363 x 1,887 x 829) x 2	
Operating	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	
Temp. Range	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.
 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 70°CDB, 6°CWB
 Equivalent refrigerant pipe length Sm., Level differences 0m
 Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a babained in an anechoic room.
 Sound pressure level is a lealtive value, depending on the distance and acoustic environment.
 Sound pressure level is an absolute value that a sound source generates.
 dBA = A-weighted sound pressure level
 Reference acoustic pressure 0 dB = 20uPa

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 Reference acoustic now restret.
 3 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

 81 If outdoor unit is located in a higher position than indoor unit, level differences 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
 Whon the outdoor unit is blow the indoor unit, level differences are 40m or more, contact your local dealer for more information.
 PDM kit: Pressure D
- 10) Recommended combination

* Ducted				* Non-duct	ed		
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2	16HP	AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	12HP	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2	18HP	AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5			14HP	AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

Model Name				AM340AXVDGH1EU	AM360AXVDGH1EU	AM380AXVDGH1EU	
	Outdoor unit module 1			AM160AXVDGH/EU	AM180AXVDGH/EU	AM100AXVDGH/EU	
	Outdoor unit module 2			AM180AXVDGH/EU	AM180AXVDGH/EU	AM120AXVDGH/EU	
	Outdoor unit module 3			-	-	AM160AXVDGH/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			Ø, #, V, HZ	HEAT PUMP	HEAT PUMP	HEAT PUMP	
	HP		- HP	34	36	38	
Performance		Cooling(Rated)	kW	95.4	100.8	106.6	
	Capacity	~					
		Heating(Rated)	kW	95.4	100.8	106.6	
Maximum pup	nber of connectable indoo	Heating(Max)	kW	107.1	113.4	119.7	
			EA	61	64	64	
	of the connected Indoor	Min.	kW	47.7	50.4	53.3	
Units		Max.	kW	124.0	131.0	138.6	
Current	Current Input	Cooling(Rated)	A	68.65	75.22	73.55	
	(Ducted)	Heating(Rated)	А	47.13	49.50	53.17	
	Current Input	Cooling(Rated)	А	68.29	74.50	68.30	
	(Non-Ducted)	Heating(Rated)	А	46.47	49.82	51.24	
	Current	Minimum Ssc	MVA	11.5	12.6	12.9	
		MCA	A	71.2	78.4	80.0	
		MFA	А	80	90	90	
Efficiency	SEER		W/W	-	-	-	
	SCOP	Duatad	W/W	-	-	-	
	ηs.c	Ducted	%	-	-	-	
	ηs.h	-	%	-	-	-	
	SEER		W/W	-	-	-	
	SCOP	-	W/W	-	-	-	
	ηs.c	-Non_Ducted	%	_	-	-	
	ηs.h	-	%	_	-	_	
	Pdesignh		kW	50.5	53	59.1	
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
casing	Materiat	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
Lloot	Туре	Dase	-	Fin & Tube	Fin & Tube	Fin & Tube	
Heat	Material	Fin			AL	Al	
Exchanger	Materiat		-	Al	Cu		
	Fin Transforment	Tube	-	Cu		Cu	
~	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
Compressor	Туре		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 3	
	Output		kW x n	(8.93 x 1) x 2	(8.93 x 1) x 2	(6.67 x 1) x 2 + (8.93 x 1) x 1	
	Model Name		-	(DS4GM7090FV* x 1) x	(DS4GM7090FV* x 1) x	(DS4GR7066FV* x 1) x 2 +	
				2	2	(DS4GM7090FV* x 1) x 1	
	Oil	Туре	-	PVE	PVE	PVE	
		Initial charge	cc x n	(1,400 x 1) x 2	(1,400 × 1) × 2	(1,100 x 1) x 2 + (1,400 x 1) x 1	
Fan	Туре		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Тор	Тор	Тор	
	Quantity		EA	4	4	4	
	Air Flow Rate		m³/min	303 x 1 + 324 x 1	324 x 2	167 x 1 + 196 x 1 + 303 x 1	
			l/s	5,052 x 1 + 5,401 x 1	5,401 x 2	2,779 x 1 + 3,260 x 1 + 5,052 x 1	
	External Static	Max.	mmAq	11	11	11	
	Pressure		Pa	110	110	110	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(630 x 1) x 2 + (620 x 2) x 1	
Dipipa							
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection	
Connections	C		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	
	Gas Pipe		Туре	Braze connection	Braze connection	Braze connection	
			Φ, mm (inch)	34.92 (1-3/8)	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	

Essential

Model Name				AM340AXVDGH1EU	AM360AXVDGH1EU	AM380AXVDGH1EU	
	Outdoor unit module 1			AM160AXVDGH/EU	AM180AXVDGH/EU	AM100AXVDGH/EU	
	Outdoor unit module 2			AM180AXVDGH/EU	AM180AXVDGH/EU	AM120AXVDGH/EU	
	Outdoor unit module 3			-	-	AM160AXVDGH/EU	
	Outdoor unit module 4			-	-	-	
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	
Connections	Piping length (1st Branch-IDU)	Max.	m	90	90	90	
	Total piping length (System)	Max.	m	1,000	1,000	1,000	
	Level difference (ODU in highest position)	Max.	m	110	110	110	
	Level difference (IDU in highest position)	Max.	m	110	110	110	
	Level difference (IDU-IDU)	Max.	m	50	50	50	
Wiring	Transmission Min.		mm²	0.75	0.75	0.75	
connections	Cable	Remark	-	F1, F2	F1, F2	F1, F2	
	Power supply intake		_	Both indoor and outdoor	Both indoor and outdoor	Both indoor and outdoor	
				unit	unit	unit	
Refrigerant	Туре		-	R410A	R410A	R410A	
	Factory Charging		kg	8.0 x 2	8.0 x 2	5.5 x 1 + 7.0 x 1 + 8.0 x 1	
		1	tCO2e	33.41	33.41	42.80	
Sound	Sound Pressure	Cooling	dB(A)	64	64	64	
		Heating	dB(A)	66	67	67	
	Sound Power		dB(A)	85	86	85	
External	Net Weight		kg	242 x 2	242 x 2	185 x 1 + 205 x 1 + 242 x 1	
Dimension	Shipping Weight		kg	259 x 2	259 x 2	199 x 1 + 219 x 1 + 259 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 2 + (1,295 x 1,695 x 765) x 1	
	Shipping Dimensions (W	'xHxD)	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 + (998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	
Operating	Cooling		°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	
Temp. Range	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.
 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 70°CDB, 6°CWB
 Equivalent refrigerant pipe length Sm., Level differences 0m
 Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a babained in an anechoic room.
 Sound pressure level is a lealtive value, depending on the distance and acoustic environment.
 Sound pressure level is an absolute value that a sound source generates.
 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 acoustic now restret.
 3 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

 81 If outdoor unit is located in a higher position than indoor unit, level differences 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
 Whon the outdoor unit is blow the indoor unit, level differences are 40m or more, contact your local dealer for more information.
 PDM kit: Pressure D
- 10) Recommended combination

* Ducted				* Non-duc	ted		
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2		AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	12116	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2	18HP	AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5				AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

Model Name				AM400AXVDGH1EU
noucervanie	Outdoor unit module 1			AM100AXVDGH/EU
	Outdoor unit module 2			AM120AXVDGH/EU
	Outdoor unit module 2 Outdoor unit module 3			AM120AXVDGH/EU
				ΑΜΙδυΑΧΥΔΟΠ/Ευ
Derror Croek	Outdoor unit module 4		<i>a</i>	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50
Mode			-	HEAT PUMP
Performance	HP	-	HP	40
	Capacity	Cooling(Rated)	kW	112.0
		Heating(Rated)	kW	112.0
		Heating(Max)	kW	126.0
	nber of connectable indoo	-	EA	64
Total capacity	of the connected Indoor	Min.	kW	56.0
Units		Max.	kW	145.6
Current	Current Input	Cooling(Rated)	А	80.12
	(Ducted)	Heating(Rated)	A	55.54
	Current Input	Cooling(Rated)	А	74.51
	(Non-Ducted)	Heating(Rated)	А	54.59
	Current	Minimum Ssc	MVA	14.0
		MCA	A	87.2
		MFA	A	100
Efficiency	SEER		W/W	-
Enterency	SCOP	-	W/W	_
	ŋs.c	– Ducted	%	_
	ηs.h	-	%	
	SEER		W/W	
		-	W/W	
	SCOP Non_Ducted		%	-
	ŋs.c	-		
	ŋs.h		%	-
<u> </u>	Pdesignh		kW	61.6
Casing	Material	Body	-	GI Steel Plate
		Base	-	GI Steel Plate
Heat	Туре		-	Fin & Tube
Exchanger	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 3
	Output		kW x n	(6.67 x 1) x 2 + (8.93 x 1) x 1
	Model Name			(DS4GR7066FV* x 1) x 2 +
	inouce indiffic		-	(DS4GM7090FV* x 1) x 1
	Oil	Туре	-	PVE
		Initial charge	cc x n	(1,100 × 1) × 2 + (1,400 × 1) × 1
		initiat charge		
Fan	Туре		-	Propeller
	Discharge direction		-	Тор
	Quantity		EA	4
	Air Flow Rate		m³/min	167 x 1 + 196 x 1 + 324 x 1
			l/s	2,779 x 1 + 3,260 x 1 + 5,401 x 1
				2,/// X I ' J,200 X I ' J,401 X I
	External Static	Max.	mmAq	11
	Pressure		Pa	110
Fan Motor	Туре		-	BLDC Motor
	Output		Wxn	(630 x 1) x 2 + (620 x 2) x 1
Piping	Liquid Pipe		Туре	Braze connection
Connections			Φ, mm (inch)	19.05 (3/4)
_onnections	Gas Pipe		Туре	Braze connection
	Gustipe		Φ, mm (inch)	41.28 (1-5/8)

Essential

Model Name				AM400AXVDGH1EU
	Outdoor unit module 1			AM100AXVDGH/EU
	Outdoor unit module 2			AM120AXVDGH/EU
	Outdoor unit module 3			AM180AXVDGH/EU
	Outdoor unit module 4			-
Piping	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]
Connections	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 (IDU in highest position)	Max.	m	110
	Level difference (IDU-IDU)	Max.	m	50
Wiring	Transmission	Min.	mm²	0.75
-	Cable	Remark	-	F1, F2
	Power supply intake		-	Both indoor and outdoor unit
Refrigerant	Туре		-	R410A
	Factory Charging		kg	5.5 x 1 + 7.0 x 1 + 8.0 x 1
			tCO2e	42.80
Sound	Sound Pressure	Cooling	dB(A)	65
		Heating	dB(A)	67
	Sound Power		dB(A)	86
External	Net Weight		kg	185 x 1 + 205 x 1 + 242 x 1
Dimension	Shipping Weight		kg	199 x 1 + 219 x 1 + 259 x 1
	Net Dimensions (WxHxD))		(930 x 1,695 x 765) x 2 +
))	mm	(1,295 x 1,695 x 765) x 1
				(998 x 1,887 x 829) x 1 +
	Shipping Dimensions (W	(xHxD)	mm	(998 x 1,887 x 829) x 1 +
				(1,363 x 1,887 x 829) x 1
Operating	Cooling		°C	-5 ~ 50
Temp. Range	Heating		°C	-25 ~ 24

- NOTE
 Specification may be subject to change without prior notice.
 Specification comply with EN14825 and Eurovent test condition.
 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 70°CDB, 6°CWB
 Equivalent refrigerant pipe length Sm., Level differences 0m
 Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
 Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
 Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 Sound pressure level is a babained in an anechoic room.
 Sound pressure level is a lealtive value, depending on the distance and acoustic environment.
 Sound pressure level is an absolute value that a sound source generates.
 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 acoustic now restret.
 3 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

 81 If outdoor unit is located in a higher position than indoor unit, level differences 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
 Whon the outdoor unit is blow the indoor unit, level differences are 40m or more, contact your local dealer for more information.
 PDM kit: Pressure D
- 10) Recommended combination

* Ducted		ted					
Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units	Capacity	Indoor Units
10HP	AM071ANHPKH×4	16HP	AM056ANHPKH×2 + AM090ANHPKH×4	10HP	AM056AN4PKH×2 + AM090AN4PKH×2		AM028AN4PKH+ AM045AN4PKH + AM090AN4PKH×3 + AM128AN4PKH
12HP	AM056ANHPKH×6	18HP	AM056ANHPKH×4 + AM071ANHPKH×4	12HP	AM028AN4PKH×2 + AM056AN4PKH×2 + AM090AN4PKH×2		AM028AN4PKH + AM036AN4PKH + AM045AN4PKH + AM056AN4PKH×2 + AM090AN4PKH×2 + AM128AN4PKH
14HP	AM056ANHPKH×1 + AM071ANHPKH×5			14HP	AM028AN4PKH + AM045AN4PKH + AM056AN4PKH + AM071AN4PKH + AM090AN4PKH + AM128AN4PKH		

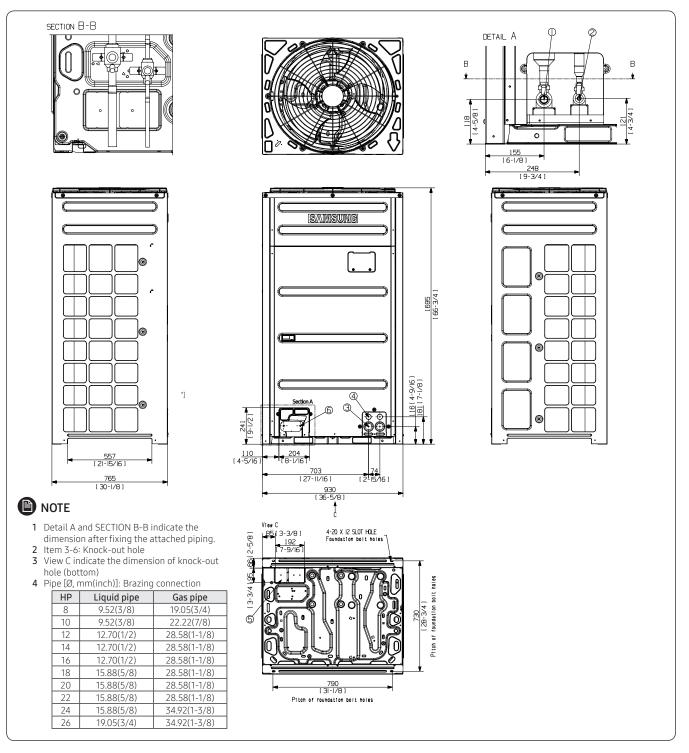
3. Electric Characteristics

Essential

Cap	bacity	city Model Name		Power Supply		Voltage Range		Running Current [A]		Current [A]		ODU Fan Motor	
HP	kW	Model Name	Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA	kW	FLA [A]	
10	28.0	AM100AXVDGH/EU	50	380-415	342	456	20.50	14.34	23.0	32	0.63	7.3	
12	33.6	AM120AXVDGH/EU	50	380-415	342	456	22.01	16.45	25.0	32	0.63	7.3	
14	40.0	AM140AXVDGH/EU	50	380-415	342	456	28.60	20.91	29.0	32	0.63	7.3	
16	45.0	AM160AXVDGH/EU	50	380-415	342	456	31.04	22.38	32.0	40	1.24	14.6	
18	50.4	AM180AXVDGH/EU	50	380-415	342	456	37.61	24.75	39.2	50	1.24	14.6	
20	56.0	AM200AXVDGH1EU	50	380-415	342	456	41.00	28.68	46.0	63	1.26	14.6	
22	61.6	AM220AXVDGH1EU	50	380-415	342	456	42.51	30.79	48.0	63	1.26	14.6	
24	68.0	AM240AXVDGH1EU	50	380-415	342	456	49.10	35.25	52.0	63	1.26	14.6	
26	73.0	AM260AXVDGH1EU	50	380-415	342	456	51.54	36.72	55.0	63	1.87	21.9	
28	78.6	AM280AXVDGH1EU	50	380-415	342	456	53.05	38.83	57.0	63	1.87	21.9	
30	84.0	AM300AXVDGH1EU	50	380-415	342	456	59.62	41.20	64.2	75	1.87	21.9	
32	90.0	AM320AXVDGH1EU	50	380-415	342	456	62.08	44.76	64.0	75	2.48	29.2	
34	95.4	AM340AXVDGH1EU	50	380-415	342	456	68.65	47.13	71.2	80	2.48	29.2	
36	100.8	AM360AXVDGH1EU	50	380-415	342	456	75.22	49.50	78.4	90	2.48	29.2	
38	106.6	AM380AXVDGH1EU	50	380-415	342	456	73.55	53.17	80.0	90	2.50	29.2	
40	112.0	AM400AXVDGH1EU	50	380-415	342	456	80.12	55.54	87.2	100	2.50	29.2	

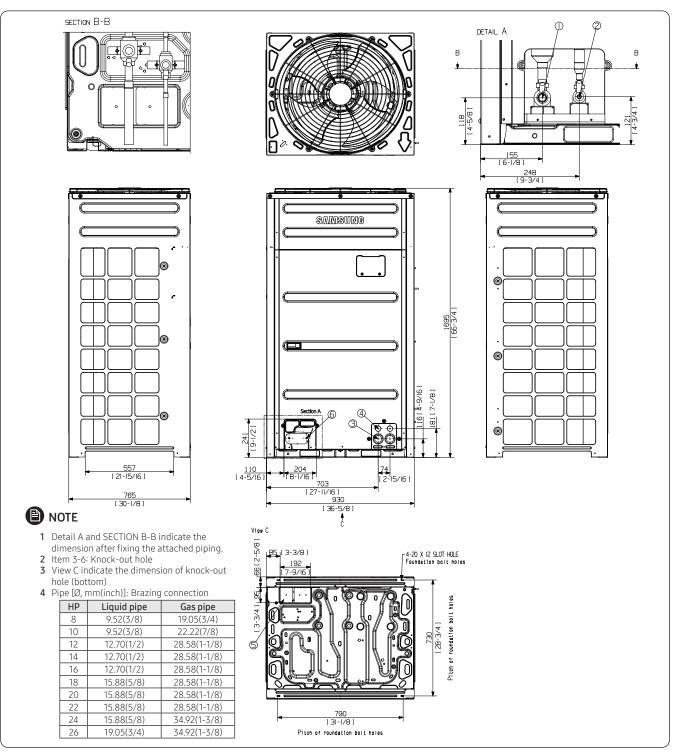
- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- FLA : Full load amperes

• AM100AXVDGH/EU



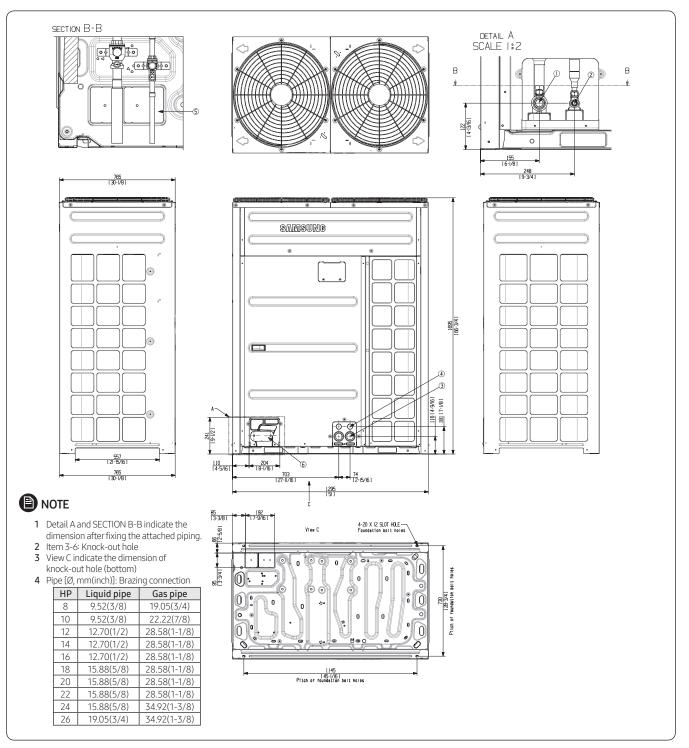
NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

• AM120AXVDGH/EU, AM140AXVDGH/EU



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

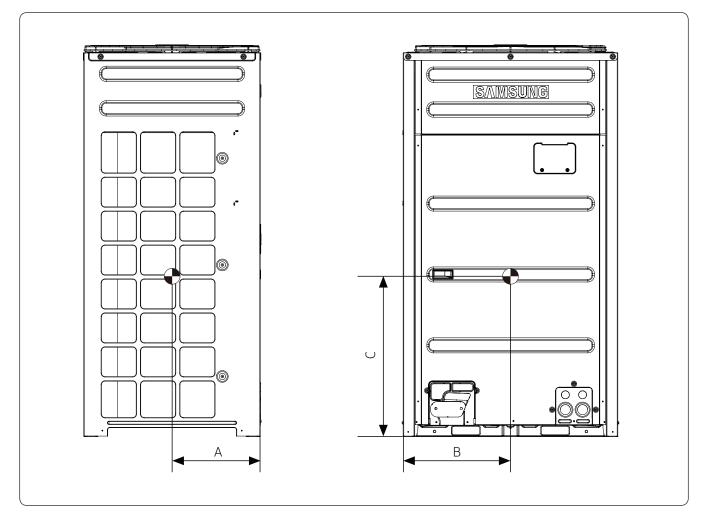
• AM160AXVDGH/EU, AM180AXVDGH/EU



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

5. Center of Gravity

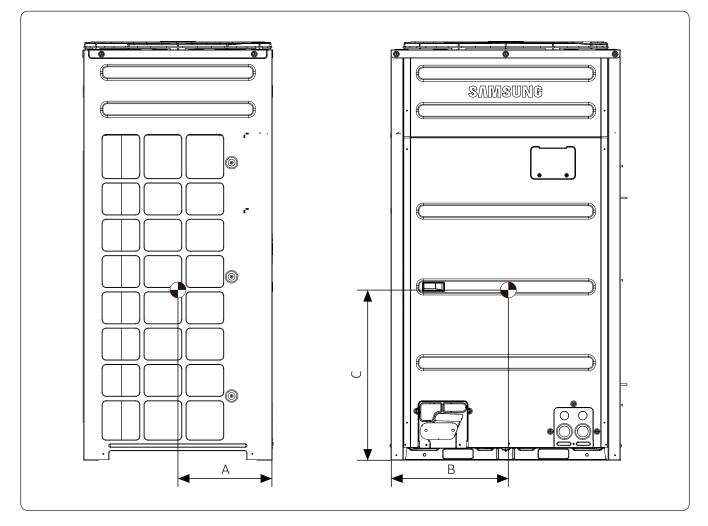
Outdoor unit



Model	А	В	С
AM100AXVDGH/EU	340[13 - 3/8]	458[18 - 1/16]	694[27 - 5/16]

5. Center of Gravity

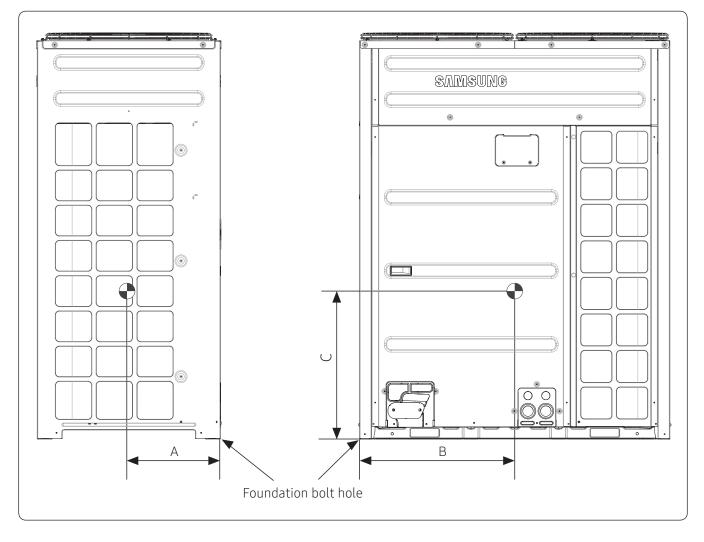
Outdoor unit



Model	A	В	C
AM120AXVDGH/EU AM140AXVDGH/EU	351 [13 - 13/16]	461 [18 - 1/8]	694 [27 - 5/16]

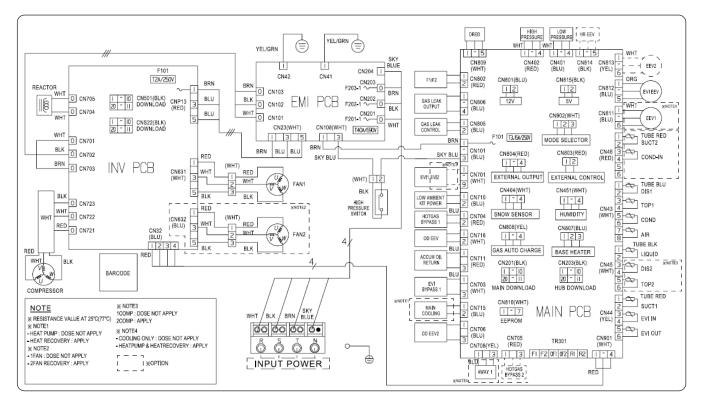
5. Center of Gravity

Outdoor unit



Model	А	В	C
AM160AXVDGH/EU AM180AXVDGH/EU	345[13 - 9/16]	502[19 - 3/4]	719[28 - 5/16]

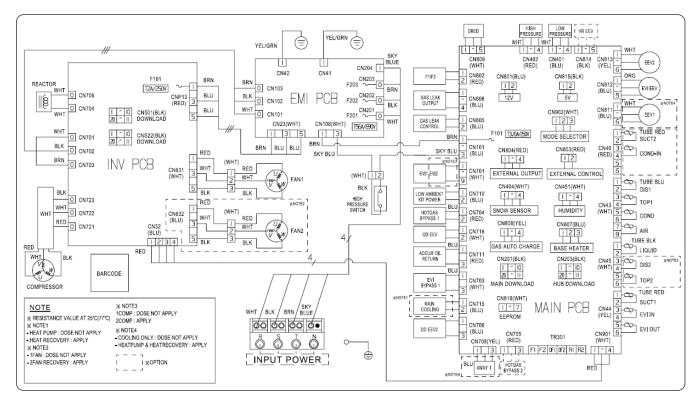
AM100~120AXVDGH/EU



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	Solenode valve (EVI1)	AIR(10K)	Thermistor (Ambient Temp10Kohm)
EVI V/V2	Solenode valve (EVI2)	COND(10K)	Thermistor (Cond Out Temp10Kohm)
EVI EEV	Electronic expansion valve (EVI)	TOP1(200K)	Thermistor (Compressor Top 1_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 Temp10Kohm)
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)

- 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.

AM140~180AXVDGH/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 Temp10Kohm)
EVI V/V1	Solenode valve (EVI1)	COND(10K)	Thermistor (Cond Out Temp10Kohm)
EVI V/V2	Solenode 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 Temp10Kohm)
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)		

- 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.

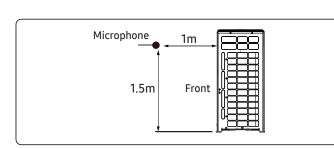
7. Sound Data

Summary

Capacity		Model Name	Sound Pres	ssure dB(A)	Sound Power	
HP	kW	Model Name	Cooling	Heating	dB(A)	
10	28.0	AM100AXVDGH/EU	56	60	78	
12	33.6	AM120AXVDGH/EU	61	63	81	
14	40.0	AM140AXVDGH/EU	63	65	85	
16	45.0	AM160AXVDGH/EU	60	62	81	
18	50.4	AM180AXVDGH/EU	61	64	83	
20	56.0	AM200AXVDGH1EU	59	63	81	
22	61.6	AM220AXVDGH1EU	62	65	83	
24	68.0	AM240AXVDGH1EU	64	66	86	
26	73.0	AM260AXVDGH1EU	61	64	83	
28	78.6	AM280AXVDGH1EU	64	66	84	
30	84.0	AM300AXVDGH1EU	64	67	85	
32	90.0	AM320AXVDGH1EU	63	65	84	
34	95.4	AM340AXVDGH1EU	64	66	85	
36	100.8	AM360AXVDGH1EU	64	67	86	
38	106.6	AM380AXVDGH1EU	64	67	85	
40	112.0	AM400AXVDGH1EU	65	67	86	

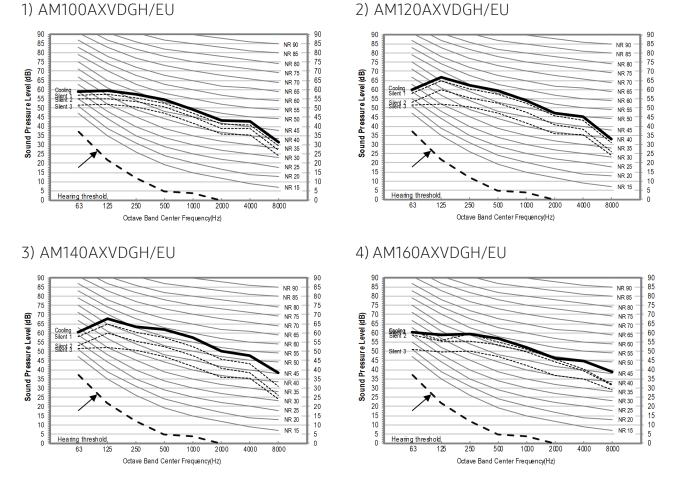
7. Sound Data

Sound Pressure level



			U	<u>nit: dB(A)</u>
Model	Cooling	Silent 1	Silent 2	Silent 3
AM100AXVDGH/EU	56	54	52	49
AM120AXVDGH/EU	61	59	54	49
AM140AXVDGH/EU	63	59	54	49
AM160AXVDGH/EU	60	57	55	49

• NR Curve

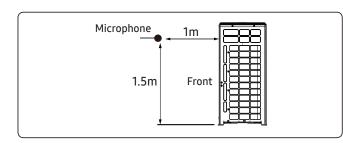


• INR CUIVE

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

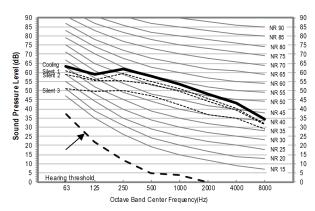
7. Sound Data

Sound Pressure level



		Ur	nit: dB(A)
ooling	Silent 1	Silent 2	Silent 3
61	57	55	49
			ooling Silent1 Silent2

• NR Curve



1) AM180AXVDGH/EU

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

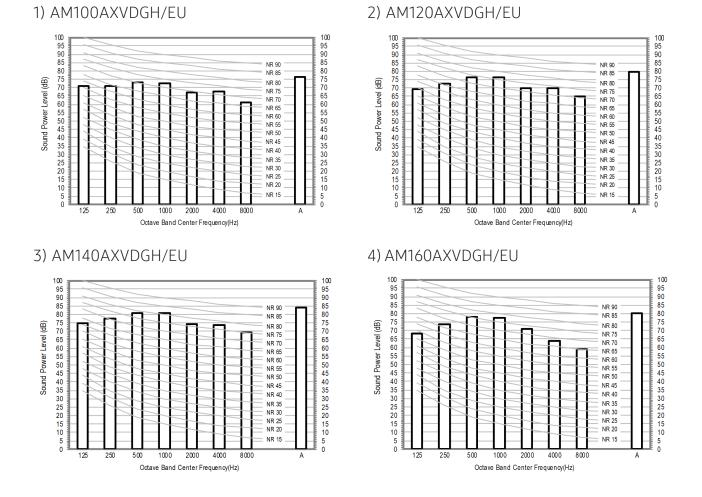
7. Sound Data

Sound Power level

Unit: dB(A)

Model	Power
AM100AXVDGH/EU	78
AM120AXVDGH/EU	81
AM140AXVDGH/EU	85
AM160AXVDGH/EU	81

• NR Curve



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.

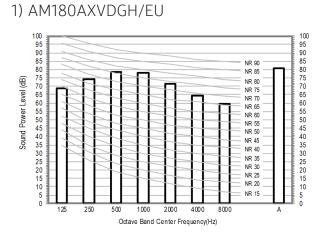
7. Sound Data

Sound Power level

Unit: dB(A)

Model	Power
AM180AXVDGH/EU	83

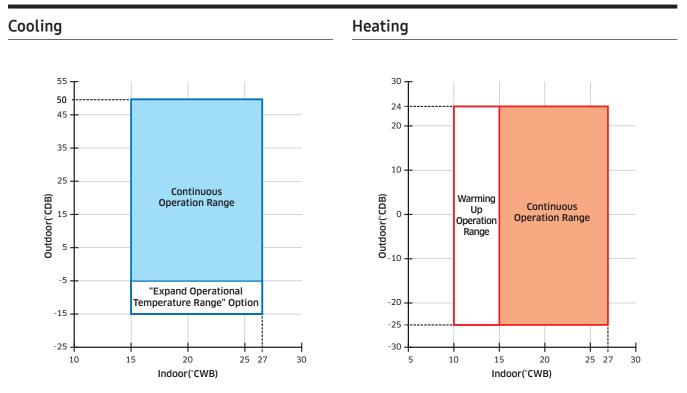
• NR Curve



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



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

8. Operation Range

Defrosting correction factor

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

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

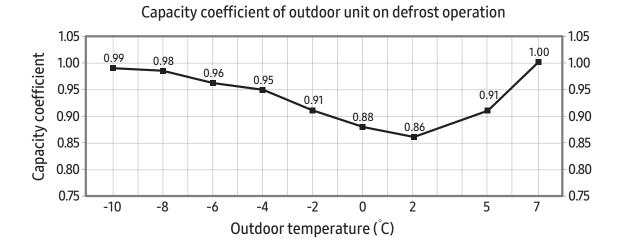
Formula : A = B × C

Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

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



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

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

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

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

It is actually the frost occurrence section from 0 $^{\circ}\mathrm{C}$ or less.

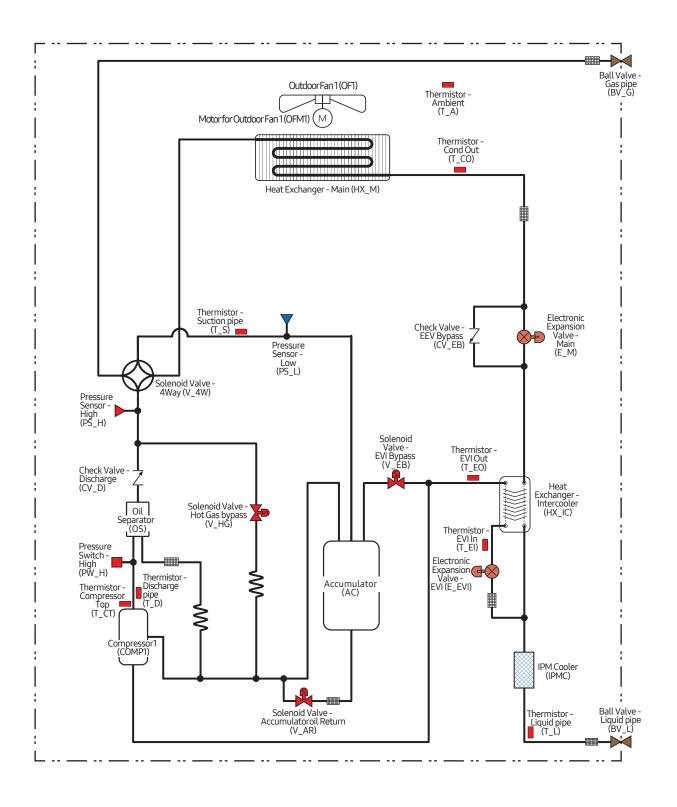
Since the outdoor temperature over 0 °C, the heating performance is the same before and after applying intelligence defrost operation

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

9. Piping Diagram

Outdoor unit

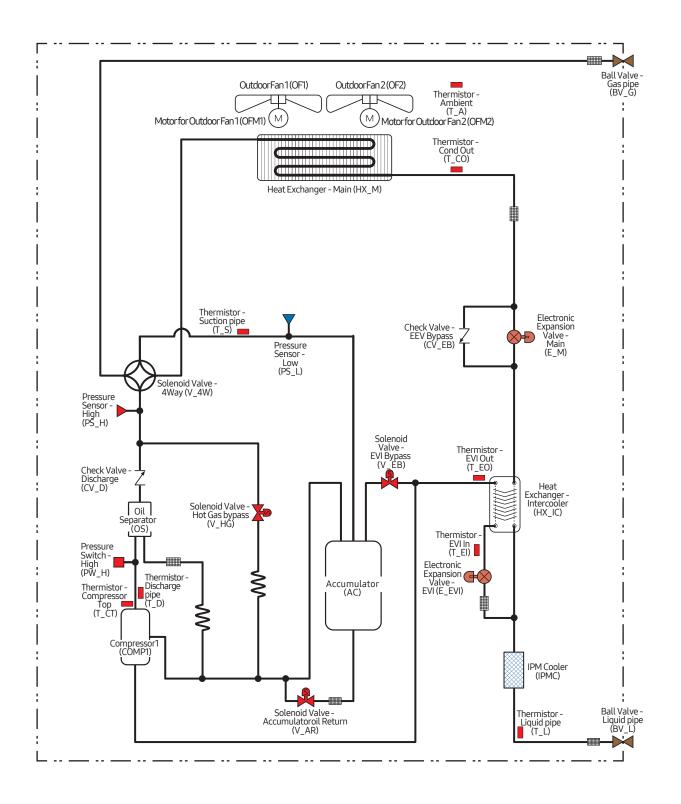
(1) AM100~140AXVDGH



9. Piping Diagram

Outdoor unit

(2) AM160~180AXVDGH



Outdoor unit

Outdoor unit location requirements

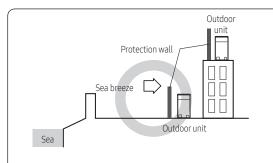
Decide the installation location, with the consideration of the following conditions, under user's approval.

- 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 see breeze.
 - Even when it is inevitable to install the product in seashore, make sure that product is not directly exposed to sea breeze by installing a protection wall.

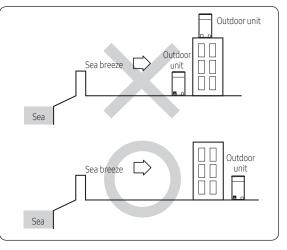


Protection wall should be constructed with a solid material that can block the sea breeze and the height and width of the wall should be 1.5 times larger than the size of the outdoor unit. (You must secure more than 700mm of space between the protection wall and the outdoor unit for air circulation.)

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

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



⚠ CAUTION

- System air conditioner may cause static noise when listening to AM stations. Therefore, select an installation location for indoor unit where electrical wiring can be done while keeping certain distance from a radio, computer and stereo equipment.
 - Especially, keep the unit at least 3m 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.

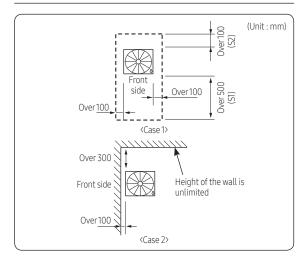
Outdoor unit

- When you install the outdoor unit in high places such as a roof, install fence or guardrail around it. When there is no fence or guardrail, service person could fall.
- Do not install the product in places where corrosive gases such as sulfur oxides, ammonia, and sulfurous gas are produced. (e.g. Toilet outlet, ventilation opening, sewage works, dyeing complex, cattle shed, sulfuric hot spring, nuclear power plant, ship etc.)
 When installing the product in those places, contact an installation specialty store as the copper pipe and brazing part will need additional corrosion proof or anti-rust additive to prevent corrosion.
- Make sure not to keep any inflammable materials (such as wooden materials, oil etc.) around the outdoor unit. When there's fire, those inflammable material will easily catch the fire and may pass it on to the product.
- Depending on the condition of power supply, unstable power or voltage any cause malfunction of the parts or control system. (At the ship or places using power supply from electric generator...etc)
- Make sure to install MCU when using HR products.
- When you select the location to install the MCU, the location is far away from indoor rooms because the refrigerant running of MCU may create noise.

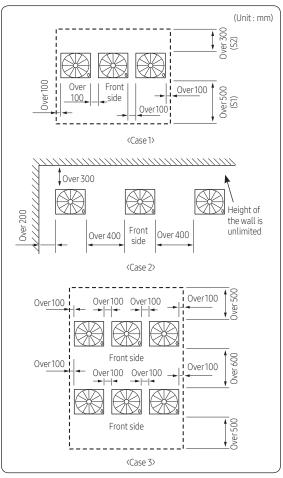
Outdoor unit space requirements

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

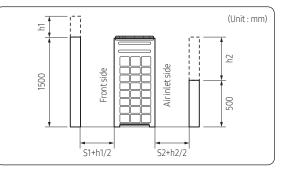
Single installation



Module installation



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



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.

Installation manual (1)

\square

Optional accessories

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

Classification	Model Name	Specification
	MXJ-YA1509M	15.0 kW and below
	MXJ-YA2512M	15.1 kW ~ 40.0 kW
	MXJ-YA2812M	40.1 kW ~ 45.0 kW
Y-Joint	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	Over135.2 kW

Classification	Model Name	Specification
	MXJ-YA1500M	22.4 kW and below
V Joint (Only H/P)	MXJ-YA2500M	22.5 kW ~ 70.3 kW
Y-Joint (Only H/R)	MXJ-YA3100M	70.4 kW ~ 135.2 kW
	MXJ-YA3800M	Over 135.2 kW
	MXJ-HA2512M	45.0 kW and below (for 4 rooms)
Distribution header	MXJ-HA3115M	70.3 kW and below (for 8 rooms)
-	MXJ-HA3819M	70.4 kW ~ 135.2 kW (for 8 rooms)
Y-Joint	MXJ-TA3419M	135.2 kW and below
- Outdoor unit	MXJ-TA4122M	Over 135.2 kW
Y-Joint (Only H/R)	MXJ-TA3100M	135.2 kW and below
- Outdoor unit	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

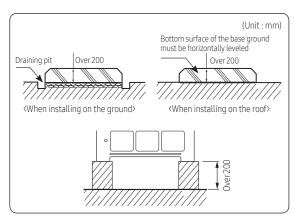
/ WARNING

- 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.

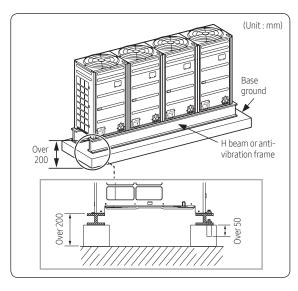
- 5 In heating operation, defrost water may form so you must really care about the drainage and waterproofing the floor. To prevent defrost water from stagnating or freezing, construct a drainage with over 1/50 slope. (Ice may form on the floor in winter season.)
- **6** It is necessary to add wire mesh 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)

Outdoor unit

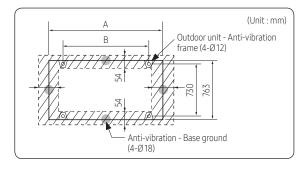
Base ground construction



Outdoor unit installation



Outdoor unit base mount and anchor bolt position

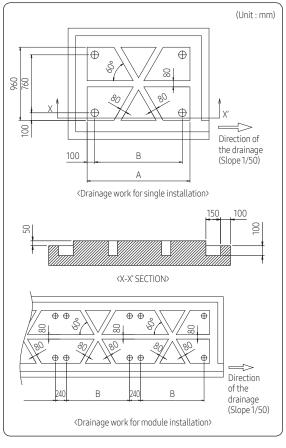


		(Unit : mm)
Classification	DVM S2 Small Type	DVM S2 Large Type
(mm)	W930 x H1695 x D765	W1295 x H1695 x D765
A	930	1295
В	790	1155

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

Examples of draining work

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



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

Outdoor unit

A CAUTION

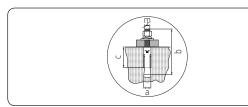
- Cautions regarding on connecting the anchor bolt
- Tighten the rubber washer to prevent the bolt connection part of the outdoor unit from corroding.

|--|

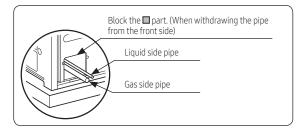
Anchor specification

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.

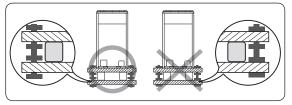


- Cautions regarding on connecting the pipe
 - If you install the outdoor unit on the rooftop, check the strength and make sure to waterproof the rooftop.
 - Construct draining pit around the base construction and pay attention to the drainage around the outdoor unit. (Condensation or defrost water may 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 antivibration frame or H beam.
 - Base ground must be constructed strongly to support the bottom part of the anti-vibration mount.



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

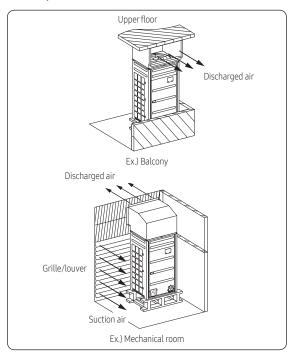
- Caution for installing discharge duct
 - Static pressure of the discharge duct should be within the standard specification when installing the duct.
 - If you remove the fan guard to install the discharge duct, make sure to install a safety net on the duct outlet. Foreign substance may enter into the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



Installing the outdoor unit in various environments

Installing the outdoor unit around the obstacles

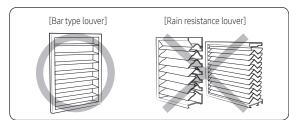
 It is necessary to install a discharge guide duct(field supply) to direct exhaust from the fan horizontally, when it is difficult to provide a minimum space of 2m between the air outlet and a nearby obstacle.



Outdoor unit

/ WARNING

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

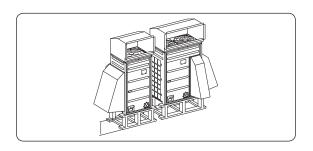


- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria : greater than 80%

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.

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

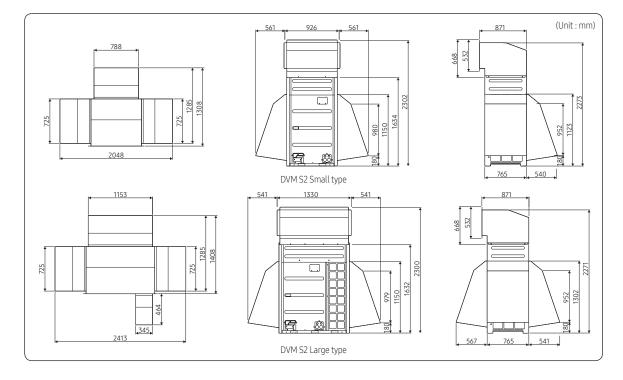


Installing the outdoor unit in windy region

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

\land 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.



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.

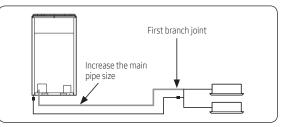
Refrigerant pipe work

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

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 eq	uipped with the product.

Selecting refrigerant pipe



- Install the refrigerant pipe according to main pipe size of each outdoor unit capacity.
- When the pipe length (including elbow) between an outdoor unit and the farthest indoor unit exceeds 90m, 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.

Outdoor unit

			C		Capacity (IdM)	No	Pipe siz	re (mm)
			la l		Capacity (kW)	No.	Liquid	Gas
			(D)		33.6	(1)	Ø 12.70	Ø 28.58
			↓J ⊲≕⊡⊷⊲=∈	J	73.6	(2)	Ø19.05	Ø 34.92
○ (A) □ (B)	(1)	(2) (3) (C)	(E)		135.2	(3)	Ø19.05	Ø 41.28
9	Size of the pipe co	onnected to the o	utdoor unit (A)			Size of t	he pipe between the branch joint a	and the indoor unit
elect the size of the n	main pipe accordir	ng to the below ta	ble.		Make a selectio	on accord	ing to outdoor unit capacity.	
Outdoor unit capacity (kW)	*Maximum pipe l	ength within 90m	*Maximum pipe	length over 90m	Indoor unit c	apacity	· · · · ·	(O.D. mm)
(Cooling)	Liquid (mm)	Gas (mm)	Liquid (mm)	Gas (mm)	(kW)		Liquid	Gas
Capacity ≤ 25	Ø052	Ø19.05	Ø 12 70	Ø 22.22	6.0 and be		Ø 6.35	Ø 12.70
25 < Capacity ≤ 32	Ø 9.52	Ø 22.22	Ø 12.70	Ø 25.40 note1)	6.1 ~ 16.		Ø 9.52	Ø 15.88
32 < Capacity ≤ 39				Ø 28.58	16.1 ~ 23		Ø 9.52	Ø 19.05
39 < Capacity ≤ 44	Ø12.70		Ø 15.88	Ø 28.58	Over 23	.0	Ø 9.52	Ø 22.22
44 < Capacity ≤ 48		Ø 28.58					Branch joint	
48 < Capacity ≤ 55				Ø 31.75 note2)	Branch joint be	tween o	itdoor units (C)	
55 < Capacity ≤ 66	Ø 15.88	L	Ø 19.05					
66 < Capacity ≤ 72		Ø 34.92		Ø 38.10 note3)	Classifica		Model name	Specification (kW)
72 < Capacity ≤100		xJ 94.72		0.00	Y-joint for or unit (C		MXJ-TA3419M	135.2 and below
100 < Capacity ≤139	Ø 19.05	Ø 41.28	Ø 22.22	Ø 41.28		-	MXJ-TA4122M	Over 135.2
139 < Capacity ≤173		0 41.20			First branch joi		ing to outdoor unit capacity.	
173 < Capacity ≤ 252	Ø 22.22	Ø 53.98	Ø 25.40 note1)	Ø 53.98				
252 < Capacity	Ø 25.40	0 55.70	Ø 28.58		Classifica	tion	Model name of the branch joint	Outdoor unit capacity (kW)
Aaximum pipe lengtl	h : The pipe length	h between an out	door unit and the f	arthest indoor			MXJ-YA1509M	15.0 and below
nit.								
	ia natavailabla an	aita una (1 20 F0					MXJ-YA2512M	15.1 ~ 40.0
ote1) If Ø 25.40 pipe							MXJ-YA2812M	40.1 ~ 45.0
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i	is not available on	site, use Ø 34.92	pipe.		Y-joint (D)	MXJ-YA2812M MXJ-YA2815M	40.1 ~ 45.0 45.1 ~ 70.3
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the	is not available on is not available on diameter of the c	site, use Ø 34.92 n site, use Ø 41.28 default pipe of an	pipe. pipe. outdoor unit does		Y-joint (D)	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i	is not available on is not available on diameter of the c	site, use Ø 34.92 n site, use Ø 41.28 default pipe of an	pipe. pipe. outdoor unit does		Y-joint (D)	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe For the case that the the pipe installed on	is not available on is not available on diameter of the c	site, use Ø 34.92 site, use Ø 41.28 default pipe of an is provided by de	pipe. pipe. outdoor unit does fault together with				MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on	is not available on is not available on e diameter of the c n the site, a socket Size of the pipe	site, use Ø 34.92 n site, use Ø 41.28 default pipe of an is provided by de	pipe. pipe. outdoor unit does fault together with ch joints (B)	n the outdoor unit.	Branch joint (E)	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe For the case that the the pipe installed on	is not available on is not available on e diameter of the c n the site, a socket Size of the pipe	site, use Ø 34.92 n site, use Ø 41.28 default pipe of an is provided by de	pipe. pipe. outdoor unit does fault together with ch joints (B)	n the outdoor unit.	Branch joint (E, Select a branch) I joint acc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size of	is not available on is not available or e diameter of the c n the site, a socket Size of the pipe cording to the sun of the pipe betwee	site, use Ø 34.92 a site, use Ø 41.28 default pipe of an is provided by de e between bran n of indoor unit ca en branch joints (I	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will t B) is bigger than th	n the outdoor unit.	Branch joint (E Select a branch after the branci * However, if th) I joint acc h. ne size of	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E)	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe For the case that the the pipe installed on elect the pipe size acc e branch.	is not available on is not available or diameter of the c the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de between bran n of indoor unit ca en branch joints () ly the pipe size (A	pipe. pipe. outdoor unit does fault together with ich joints (B) apacity which will t B) is bigger than th i).	n the outdoor unit.	Branch joint (E Select a branch after the branci * However, if th) I joint acc h. ne size of	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi
bte1) If Ø 25.40 pipe bte2) If Ø 31.75 pipe i bte3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size of connected to the out	is not available on is not available or diameter of the c the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app	site, use Ø 34.92 a site, use Ø 41.28 default pipe of an is provided by de e between bran n of indoor unit ca en branch joints (I	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le	n the outdoor unit.	Branch joint (E) Select a branch after the branci * However, if th connected to 1) Y-joint) i joint acc h. ne size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D).	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size (connected to the out	is not available on is not available or diameter of the c the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de between bran n of indoor unit ca en branch joints () ly the pipe size (A	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le	n the outdoor unit.	Branch joint (E Select a branch after the branci * However, if th connected to) i joint acc h. ne size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi
bte1) If Ø 25.40 pipe bte2) If Ø 31.75 pipe i bte3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size of connected to the out	is not available on is not available or diameter of the c the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app Branch pipe ler	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de between bran n of indoor unit ca en branch joints (I ly the pipe size (A ngth within 45m	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45	n the outdoor unit.	Branch joint (E) Select a branch after the branci * However, if th connected to 1) Y-joint) i joint acc h. ne size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 - 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size e connected to the our Indoor unit capacity (kW)	is not available on is not available or diameter of the c the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app Branch pipe ler	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de between bran n of indoor unit ca en branch joints (ly the pipe size (A ngth within 45m Gas (mm)	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45	n the outdoor unit.	Branch joint (E) Select a branch after the branci * However, if th connected to 1) Y-joint) i joint acc h. ne size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 - 98.4 98.5 - 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size i connected to the out Indoor unit capacity (kW) Capacity ≤15	is not available on is not available or diameter of the e the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm)	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de between bran n of indoor unit ca en branch joints (ly the pipe size (A ngth within 45m Gas (mm) Ø 15.88	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45– Liquid (mm)	en the outdoor unit.	Branch joint (E. Select a branch after the branch * However, if ti connected to 1) Y-joint Classifica) i joint acc h. ee size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2512M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 - 98.4 98.5 - 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acc e branch. However, if the size (connected to the out Indoor unit capacity (kW) Capacity ≤ 15 15 < Capacity ≤ 25	is not available on is not available or diameter of the e the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm)	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de e between bran n of indoor unit ca en branch joints (ly the pipe size (A ugth within 45m Gas (mm) Ø 15.88 Ø 19.05	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45– Liquid (mm)	e connected after the size of the pipe ength between 90m Gas (mm) Ø 19.05 Ø 22.22 Ø 25.40 ^{note(1)}	Branch joint (E) Select a branch after the branci * However, if th connected to 1) Y-joint) i joint acc h. ee size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 - 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0 45.1 ~ 70.3
tet1) If Ø 25.40 pipe tet2) If Ø 31.75 pipe i tet3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acce e branch. However, if the size (connected to the out Indoor unit capacity (kW) Capacity ≤15 15 < Capacity ≤ 32	is not available on is not available or diameter of the e the site, a socket Size of the pipe cording to the sun of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm)	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de e between bran n of indoor unit ca en branch joints (ly the pipe size (A ugth within 45m Gas (mm) Ø 15.88 Ø 19.05	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45– Liquid (mm)	en the outdoor unit. be connected after the size of the pipe ength between 90m Gas (mm) Ø 19.05 Ø 22.22	Branch joint (E. Select a branch after the branch * However, if ti connected to 1) Y-joint Classifica) i joint acc h. ee size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acce e branch. However, if the size i connected to the our Indoor unit capacity (kW) Capacity ≤ 15 15 < Capacity ≤ 25 25 < Capacity ≤ 39	is not available on is not available on diameter of the e the site, a socket Size of the pipe cording to the sum of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm) Ø 9.52	site, use Ø 34.92 n site, use Ø 41.28 lefault pipe of an is provided by de e between bran n of indoor unit ca en branch joints (ly the pipe size (A ugth within 45m Gas (mm) Ø 15.88 Ø 19.05	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45~ Liquid (mm) Ø 12.70	e connected after the size of the pipe ength between 90m Gas (mm) Ø 19.05 Ø 22.22 Ø 25.40 ^{note(1)}	Branch joint (E. Select a branch after the branch * However, if ti connected to 1) Y-joint Classifica) i joint acc h. ee size of the outc	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4412M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M MXJ-YA2815M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe i For the case that the the pipe installed on elect the pipe size acce e branch. However, if the size (connected to the out Indoor unit capacity (kW) Capacity ≤15 15 < Capacity ≤ 25 25 < Capacity ≤ 32 32 < Capacity ≤ 39 39 < Capacity ≤ 44	is not available on is not available on diameter of the e the site, a socket Size of the pipe cording to the sum of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm) Ø 9.52	site, use Ø 34.92 site, use Ø 41.28 default pipe of an is provided by de e between bran n of indoor unit ca en branch joints (i ly the pipe size (A ingth within 45m Gas (mm) Ø 15.88 Ø 19.05 Ø 22.22	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45~ Liquid (mm) Ø 12.70	e connected after the size of the pipe ength between 90m Gas (mm) Ø 19.05 Ø 22.22 Ø 25.40 ^{note(1)}	Branch joint (E. Select a branch after the branch * However, if ti connected to 1) Y-joint Classifica) i joint acc he size of the outc tion	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (kW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4
ote1) If Ø 25.40 pipe ote2) If Ø 31.75 pipe i ote3) If Ø 38.10 pipe For the case that the the pipe installed on e branch. However, if the size i connected to the out Indoor unit capacity (kW) Capacity ≤ 15 15 < Capacity ≤ 15 15 < Capacity ≤ 25 25 < Capacity ≤ 32 32 < Capacity ≤ 39 39 < Capacity ≤ 44 44 < Capacity ≤ 55	is not available on is not available on diameter of the e the site, a socket Size of the pipe cording to the sum of the pipe betwee tdoor unit (A), app Branch pipe ler Liquid (mm) Ø 9.52	site, use Ø 34.92 site, use Ø 41.28 default pipe of an is provided by de e between bran n of indoor unit ca en branch joints (i ly the pipe size (A ingth within 45m Gas (mm) Ø 15.88 Ø 19.05 Ø 22.22	pipe. pipe. outdoor unit does fault together with ch joints (B) apacity which will b B) is bigger than th). Branch pipe le 45~ Liquid (mm) Ø 12.70	a the outdoor unit. be connected after the size of the pipe ength between 90m Gas (mm) Ø 19.05 Ø 22.22 Ø 25.40 ^{rote(1)} Ø 28.58	Branch joint (E Select a branch after the branc * However, if ti connected to 1) Y-joint Classifica Y-joint (2) Distribution) joint acc h. he size of the outc tion E) E)	MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA3419M MXJ-YA4412M cording to the sum of indoor unit ca the pipe between branch joints (E) oor unit (D), apply the pipe size (D). Model name MXJ-YA1509M MXJ-YA2512M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M MXJ-YA2815M MXJ-YA3419M MXJ-YA3419M	40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2 pacity which will be connected is bigger than the size of the pi Specification (KW) 15.0 and below 15.1 ~ 40.0 40.1 ~ 45.0 45.1 ~ 70.3 70.4 ~ 98.4 98.5 ~ 135.2 Over 135.2
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Outdoor unit

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 $A \ge Max$. pipping 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."

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

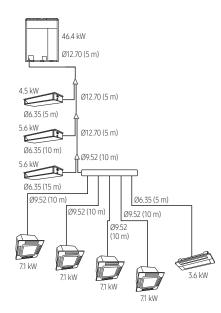
e.g. In case of the site for 20HP, Max. piping length of 140 m (Horizontal piping length of 120 m & Vertical piping length of 20 m): Max. length A ≥ Max. piping length/{1 - (Vertical piping length * 0.015)}

200 m ≥ 140 m/{1 - (20 * 0.015)} = 140 m/0.7 = 200 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

Additional refrigerant



Refrigerant pipe installation

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

Classification	AM100AXVDGH/EU	AM120AXVDGH/EU	AM140AXVDGH/EU	AM160AXVDGH/EU	AM180AXVDGH/EU
Basic amount	5.5	7.0	7.0	8.0	8.0

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

Size of liquid pipe	Ø 6.35	Ø 9.52	Ø 12.70	Ø 15.88	Ø 19.05	Ø 22.22	Ø 25.40	Ø 28.58
Additional amount (kg/m)	0.02	0.06	0.125	0.18	0.27	0.35	0.53	0.65
Amount of refrigerant added when the diameter of liquid pipe is reduced (kg/m)	-	0.08	0.13	0.195	0.28	0.42	0.53	-

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

Outdoor unit

Model													etrige	erant				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	32.0	50.0	500CMH	1000CN
nterior1way cassette (JSF-0) (AM***HN1DEH/**) (AM***NN1PEH/**)		0.15	0.15																									
lim 1way cassette (JSF-1/JSF-2) (AM***F(J/N)N1DEH/**)			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													
360 cassette (AM***KN4DEH/**)									0.45		0.45		0.45				0.69											
Duct S (AM****NMPKH/**) Duct S (AM****NMPKH9**)					0.31	0.22 0.31		0.22 0.38	0.22 0.38		0.22 0.38		0.31			0.38	0.38	0.38										
Duct S (AM***HNHPKH/**)																0.38	0.38	0.38										
ome Duct (AM***KNLDEH/**)		0.13	0.13	0.13		0.17																						<u> </u>
ome Duct (AM***MNLDEH/**)		0.17	0.17	0.17		0.01		_	0.24		0.31		0.12			0.10	0.72	0.12							\square		⊢	<u> </u>
lim 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/**)				0.72		0.45	0.45	0.35	0.35		0.45		0.42				0.62	0.62										<u> </u>
im duct (AM***FNLF(P)EH/**) lim duct (AM***NNLFEH/**)				0.62		0.45	0.45		0.62		0.62					0.62								-				
SP duct (AM****NMDEH***)			0.24	0.24		0.02	0.02	0.28	0.28		0.28		0.32			0.54	0.68	0.68	0.91									<u> </u>
SP duct (AM****NHDEH/**)			0.21	0.21		1.18		0.20		110		110				0.68	0.68		0.71		1.18			1.18				_
SP duct (AM****NHF(P)EH/**) g duct (AM***JNHF(P)KH/**)						1.10			1.18	1.18	1.18	1.18	1.18			1.18				1.15		1.15						<u> </u>
AP duct (AM****NEPEH/**)																		0.68		1.15	1.18	1.15		1.18				<u> </u>
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																			ļ
Wall mounted (Neo forte) (AM***F(H)NTDEH/**)	0.24		0.24	0.24		0.24			0.36		0.36																	
all 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																
all 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***KNTDEH/**)	0.24		0.24	0.32		0.32		0.49	0.49		0.49																	
all mounted(Boracay with EEV) (AM***KNQDEH/**)	0.24		0.24	0.32		0.32		0.49	0.49		0.49																	
'all mounted(MAX4 with EEV) (AM***MNQDEH/**)														0.68														
RV plus (AM****NKDEH/**)																											0.11	0.36
/dro Unit HE (AM****NBDEH/**)																			0.60						0.70	1.20		
ydro Unit HT (AM****NBF*B/**)														().60 no	ote ¹⁾												
MCU (MCU-S*NE**N)															0.50	_												
Way CST (AM***AN4PKH/**)		0.17	0.17	0.45		0.45			0.60		0.60		0.73			0.73	0.88	0.88							\square			
SP Duct (AM***ANLDKH/**) MSP Duct (Duct S)		0.13	0.13	0.13		0.17			0.24		0.31		0.80			0.84	0.84	0.84										
(AM***ANMPKH/**) HSP Duct (Duct S)									0.80		0.80		0.84				0.84											
(AM***ANHPKH/**) A3050 (AM***JNADKH/**)	0.16		0.16	0.10		0.25		0.25	0.52			0.52																
A3050(with EEV)	0.16		0.16			0.25			0.52			0.52																
(AM***JNVDKH/**) MD RAC (AM***TNADKH/**)	U.LL		U.LL	U.LJ		0.34		0.04	0./1		0./1	0./1																

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

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

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 (ⓐ)
 - Amount of additional refrigerant for each indoor unit (ⓑ) = ∑(Amount of additional refrigerant for each connected indoor unit) * Refer to the table
 - Total amount of additional refrigerant = (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(@+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)
	Ø 6.35	35	0.02	0.7	
Liquid pipe (ⓐ)	Ø 9.52	50	0.06	3.0	a 5.575
	Ø12.70	15	0.125	1.875	

Classification	Model name of indoor	Number of units	Unit amount of refrigerant (kg/EA)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
	unit	1	2	(1×2)	Σ(①×②)
	4way cassette (AM071FN4DEH*)	4	0.45	1.80	
ladaanusit (O)	Slim duct (AM056FNLDEH*)	2	0.35	0.70	0.710
Indoor unit ((b))	Slim duct (AM045FNLDEH*)	1	0.35	0.35	b 3.10
	1way cassette (AM036FN1DEH*)	1	0.25	0.25	

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

• Example of refrigerant calculation for HR models

Classification	Size of liquid pipe	Length (m)	Unit amount of refrigerant (kg/m)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
		1	2	1×2	Σ(①×2)
	Ø 6.35	15	0.02	0.3	
	Ø 9.52	112	0.06	6.72	
Liquid pipe ((a))	Ø 12.70	25	0.125	3.125	(a)11.965
Liquid pipe (@)	Ø15.88	10	0.18	1.8	011.703
	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)
	4way cassette (AM071FN4DEH*)	5	0.45	2.25	
Indoor unit (())	4way cassette (AM112FN4DEH*)	2	0.57	1.14	(b) 4.66
Ŭ	Neo forte (AM028FNTDEH*)	1	0.27	0.27	
	MCU	2	0.5	1	

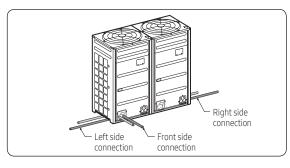
- Total amount of refrigerant (ⓐ+ⓑ) = 11.965+4.66 = 16.625 (kg)

Outdoor unit

Pipe installation for an outdoor unit

1 Direction of the pipe

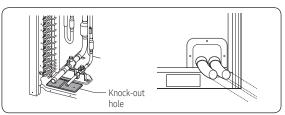
Refrigerant pipe can be withdrawn from the front, left and right side. Take necessary method to install the pipes according to the condition of the installation site.



1 Connecting refrigerant pipe for outdoor unit

AUTION

Caution for using knock-out hole

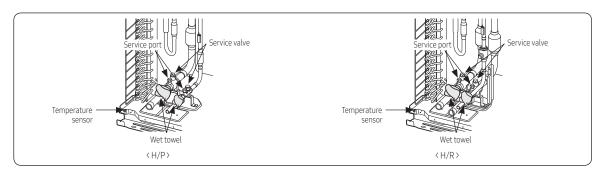


- Make sure to prevent any damages on the exterior of the outdoor unit.
- Remove all burrs around the knock-out hole and apply varnish on the cross section and edges of the knock-out hole to prevent rust.
- Use a cable protection tube and bushing to prevent a cable from being damaged when passing through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

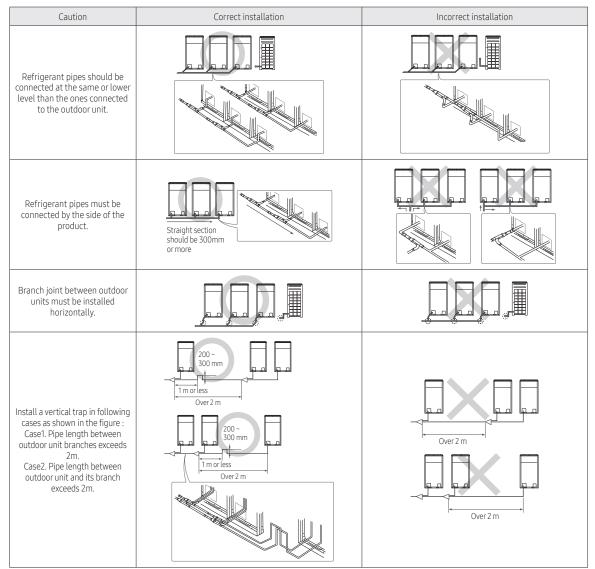
Classification	Front side connection	Right/left (and bottom) side connection
Working process	 First, remove the piping cover from the outdoor unit. Separate the knock-out hole that you are going to use. If you separate the knock-out hole that is going to be unused, small animals such as squirrels and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

- 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.

Outdoor unit



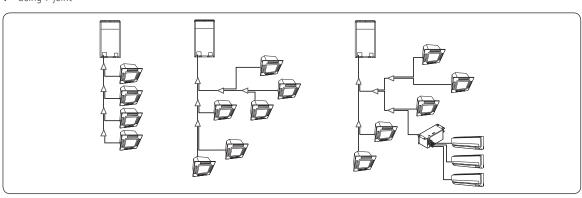
- 1 Pipe installation between the outdoor units
- You will need branch joints, which is an optional accessory, for connecting in between outdoor units in order to combine outdoor units in module.
- * For optimal distribution of the refrigerant, you must use Y-joint as branch joint for connecting outdoor 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.



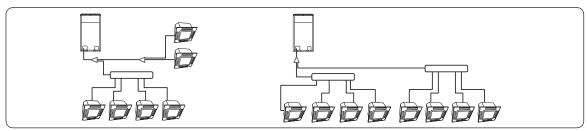
Outdoor unit

Examples of refrigerant pipe installation

1 Using Y-joint

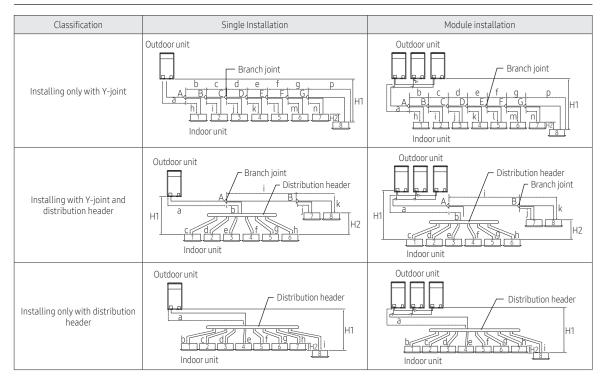


2 Using distribution header



Allowable length of the refrigerant pipe and the installation examples

H/P



Outdoor unit

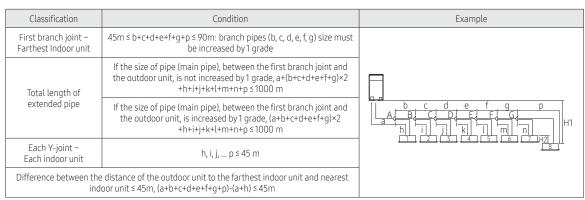
	Classit	fication			Example	Remarks
				Installing only with Y-joint	a+b+c+d+e+f+g+p ≤ 200m(220m)	- Equivalent length
		Actual length (Equivalent length)	200m and below (220m and below)	Installing with Y-joint and distribution header	a+b+h ≤ 200m (220m), a+i+k ≤ 200m (220m)	Y-joint: 0.5 m, Distribution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

	Classi	fication			Example	Remarks
				Installing only with Y-joint	b+c+d+e+f+g+p ≤ 45 m	
Maximum allowable	First branch joint ~	Diss lageth	45 m or less	Installing with Y-joint and distribution header	i+k ≤ 45 m	-
length after branch joint	Farthest Indoor unit	Pipe length		Installing only with distribu-tion header	i ≤ 45 m	
			45 m~90 m Note 1)	Required conditions mus	t be satisfied	-

	EEV kit		M	1odel name	Remarks
		2 m	MEV-E24SA	1 indoor	
		2 111	MEV-E32SA		
			MXD-E24K132A		
			MXD-E24K200A 2 indoor	2 indoor	Apply to products without EEV (Wall mount & ceiling)
EEV kit ~ Indoor unit	Actual pipe length		MXD-E32K200A		
		20 m or less	MXD-E24K232A		
			MXD-E24K300A	3 indoor	
			MXD-E32K224A	5 110001	
			MXD-E32K300A		

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

Outdoor unit

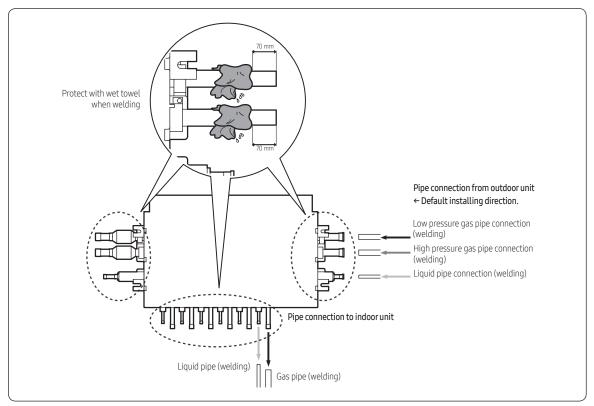


Note 2) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m, (If the height difference is over 40m, contact your local dealer for more information.)

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

How to connect the pipes

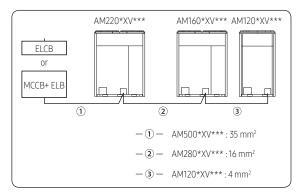


- * When installing MCU, use the pattern sheet for installation that is provided with the product.
- * When welding the gas pipes, protect the product with the flame-proof sheet.
- * When connecting the MCU with outdoor units, default direction is set in the MCU.

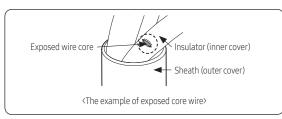
If installing opposite direction, weld the enclosed copper cap in each high pressure, low pressure and liquid pipes.

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 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

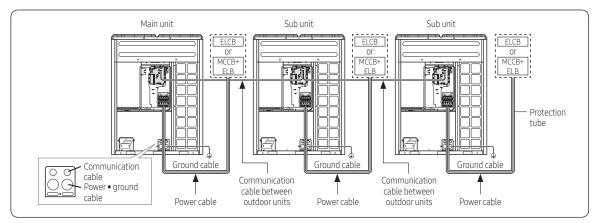
- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the table (on the left page) at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which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

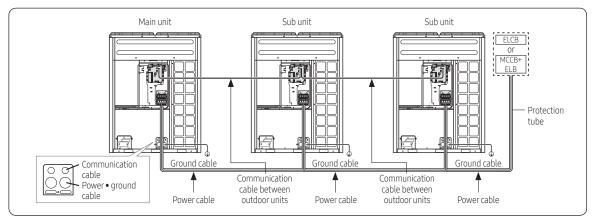
Model	Ssc(MVA)
AM100AXVDGH/EU	3.7
AM120AXVDGH/EU	4.0
AM140AXVDGH/EU	4.6
AM160AXVDGH/EU	5.2
AM180AXVDGH/EU	6.3

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.

Outdoor unit





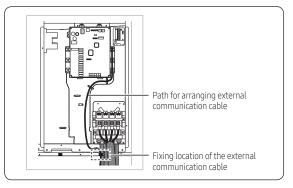
* Power Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 66 / CENELEC: H07RN-F)

Specification of the protection tube

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

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

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

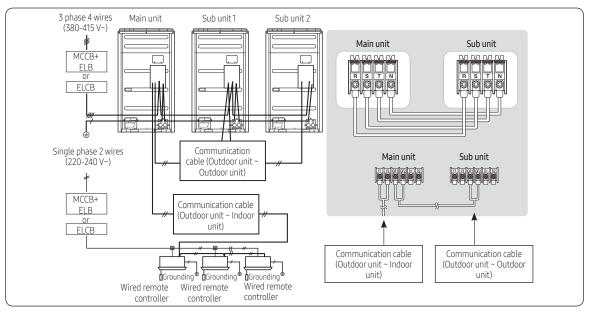


Outdoor unit

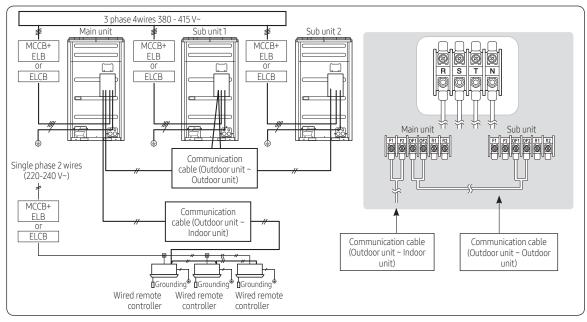
Power wiring diagram

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.)

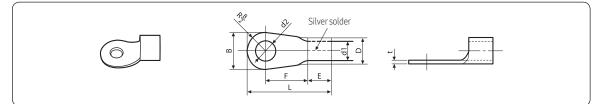
Communication cable between indoor and outdoor units and communication cable between outdoor units has no polarity.

- 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.

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.

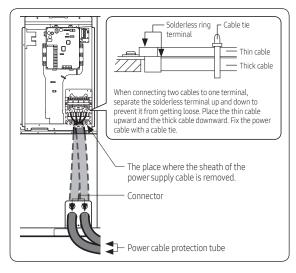


Nominal dimensions for cable (mm²)		4/6		10	16	25		35		50	70
Nominal dimensions for screw (mm)		4	8	8	8	8	8	8	8	8	8
В	Standard dimension (mm)	9.5	15	15	16	12	16.5	16	22	22	24
D	Allowance (mm)	±0.2		±0.2	±0.2	±0.3		±0.3		±0.3	±0.4
	Standard dimension (mm)	5.6		7.1	9	11.5		13.3		13.5	17.5
D	Allowance (mm)	+0.3 -0.2		+0.3 -0.2	+0.3 -0.2	+0.5 -0.2		+0.5 -0.2		+0.5 -0.2	+0.5 -0.4
d1	Standard dimension (mm)	3.4		4.5	5.8	7.7		9.4		11.4	13.3
ui	Allowance (mm)	±0.2		±0.2	±0.2	±0.2		±0.2		±0.3	±0.4
E	Min. (mm)	6		7.9	9.5	11		12.5		17.5	18.5
F	Min. (mm)	5	9	9	13	15	13	13	13	14	20
L	Max. (mm)	20	28.5	30	33	3	4	38	43	50	51
	Standard dimension (mm)	4.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
d2	Allowance (mm)	+ 0.2 + 0.4 0 0		+ 0.4 0	+ 0.4 0	+ 0.4		+ 0.4		+ 0.4 0	+ 0.4 0
t	Min. (mm)	0.9		1.15	1.45	1.7		1.8		1.8	2.0

Connecting the power terminal

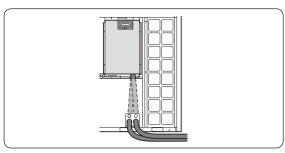
- Connect the cables to the terminal board with solderless ring terminals.
- Properly connect the cables by using certified and rated cables and make sure to fix them properly so that external force is not applied to the terminal.
- Use a driver and wrench that can apply the rated torque when tightening 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



Outdoor unit

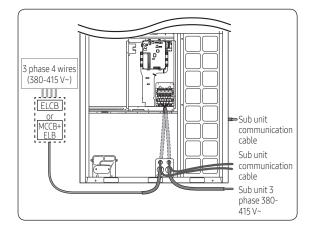
1 Closing the cover



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		

- 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

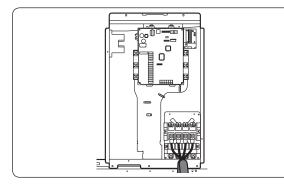


- Do not let the power cable come into contact with the pipes inside the outdoor unit. If the power supply cable touches the pipes, the vibration of the compressor is transferred to the pipes and can damage the power supply cables or pipes, creating the danger of fire or explosion.
- Make sure that the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

Outdoor unit

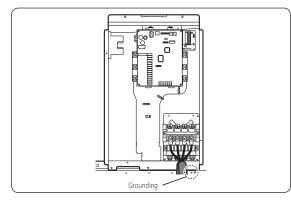
Connect the ring terminal of 3 phase cable

- 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.



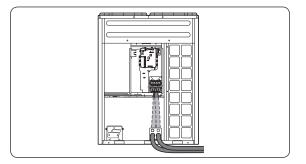
Fixing the ground cable

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



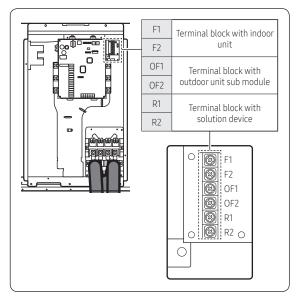
Withdrawing the power cable

- 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.

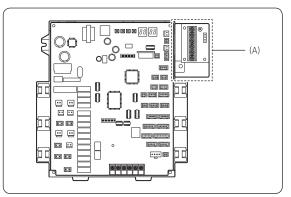


Installing the Solution device

• 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.

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