

Model : Premium (Compact / Energy Efficiency) Type Standard Type

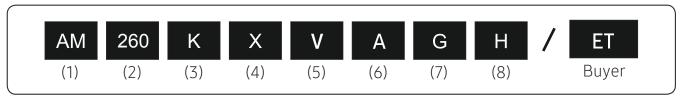
History

Version	Modification	Date	Remark
Ver. 1.0	Release DVM S (R410A, 50Hz, HP) for Euro_ET TDB	16.12.13	
Ver.1.01	Modify the Accessory Compatibility table for MCU kit (P.176)	17.09.13	
Ver.2.0	Updated Spec & Capacity data to meet the ErP standard	17.11.1	
Ver.2.1	Revised Sound Power & Weight data of 8/10/12HP	18.01.10	
Ver.2.2	Updated the Specification page	20.06.26	

Nomenclature

Outdoor Unit

Model Name



(1) Classification

AM	DVM

(5) Feature 1

V	Inverter
M	DVM S Eco

(2) Capacity

x 1/10 HP (3 digits)

(6) Feature 2

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

(3) Version

F	2013
Н	2014
J	2015
K	2016
М	2017

(7) Rating Voltage

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

(4) Product Type

Χ	Outdoor Unit
N	Indoor Unit

(8) Mode

Н	Heat Pump
R	Heat Recovery

Features & Benefits



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

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



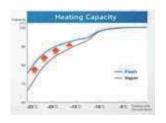
Large capacity

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



High seasonal energy efficiency

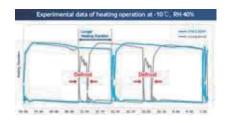
Samsung DVM S adopts a dual inverter scroll compressor that upgrades refrigerant flow and the motor's operating performance.



Superior Heating Performance & Wide Operating Temperature Range with Flash injection

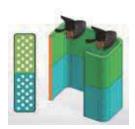
Increase refrigerant flow by 32%, extend heating operation range at -25°C, thanks to Flash Injection technology, extended compressor reliability range and control compression ratio.

Features & Benefits



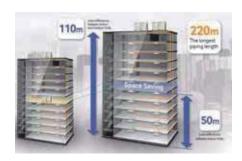
Intelligent Defrosting Logic

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



Optimised Heat Exchanger

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



Extended Piping Length Limits

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



Smart management

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



Eurovent Certified Performance

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

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Туре				DVMS	DVMS	DVMS
Model Name	lel Name			AM080JXVAGH/ET	AM100JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply		_	Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP	HP	8	10	12	
	Capacity	Cooling (Rated)	kW	22.4	28.0	33.6
		Heating (Rated)	kW	22.4	28.0	33.6
		Heating (Max)	kW	25.2	31.5	37.8
Maximum nur	nber of connectable indoor units		EA	14	18	21
Total capacity	of the connected Indoor Units	Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Power Input (Ducted)	Cooling (Rated)	kW	5.00	6.85	8.16
		Heating (Rated)	kW	4.53	5.91	7.13
		Heating (Max)	kW	5.43	7.08	8.54
	Power Input (Non-Ducted)	Cooling (Rated)	kW	6.10	9.56	10.77
	· · · · · · · · · · · · · · · · · · ·	Heating (Rated)	kW	5.46	7.47	8,46
		Heating (Max)	kW	6.55	8.95	10.13
	Current Input (Ducted)	Cooling (Rated)	A	8.00	11.00	13.10
	Carrent input (Bucteu)	Heating (Rated)	A	7.30	9.50	11.40
		Heating (Max)	A	8.70	11.40	13.70
	Current Input (Non-Ducted)	Cooling (Rated)	A	9.80	15.30	17.30
	Current input (Non-Ducteu)	Heating (Rated)	A	8.80	12.00	13.60
		Heating (Max)	A	10.50	14.40	16.20
	Current	Minimum Ssc	MVA	3.1	4.5	5.3
	Current	MCA	A	18.0	21.1	25.0
		MFA	A	25	32	32
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	4.48	4.09	4.12
Linciency	COP (Ducted)	Heating (Rated)	W/W	4.94	4.74	4.71
	COF (Ducted)	Heating (Max)	W/W	4.64	4.45	4.43
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.67	2.93	3.12
		Heating (Rated)	W/W		3.75	3.97
	COP (Non-Ducted)			4.10		
C	Markadal	Heating (Max)	W/W	3.85	3.52	3.73
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Lloot	Time	Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin Tube	-	Al Cu	Al Cu	Al Cu
	Fin Treatment	Tube	-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor				Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x 1
Compressor	Type Output					
			kW x n	4.39 x 1	6.39 x 1	6.39 x1
	Model Name		-	DS-GA046FAV* x1	DS-GB066FAV* x1	DS-GB066FAV* x1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x1	1,100 x1	1,100 x1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	11	11	1
	Air Flow Rate		m³/min	170	170	220
			l/s	2,833	2,833	3,667
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output	Wxn	830 x1	830 x1	830 x1	

Type				DVMS	DVM S	DVMS
Model Name	7			AM080JXVAGH/ET	AM100JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 1			-	-	-
Outdoor unit module 2			_	-	-	
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping			Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
	, , , , , , , , , , , , , , , , , , ,		Φ, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)
	High pressure Gas Pipe(HR Only)	Type	-	-	-
			Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	5.5	5.5	6.5
			tCO₂e	11.48	11.48	13.57
Sound	Sound Pressure	Cooling	dB(A)	57	58	62
	Heating		dB(A)	59	60	64
	Sound Power dB(A)		- , ,	77	79	81
External	Net Weight kg		186.0	197.0	210.0	
Dimension	Shipping Weight kg			193.0	204.0	217.0
	Net Dimensions (WxHxD) mm			880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	948 x 1,887 x 832	948 x 1,887 x 832	948 x 1,887 x 832
Operating	3		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	nge Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power:1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVMS
Model Name				AM140KXVAGH/ET	AM160KXVAGH/ET	AM180KXVAGH/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	14	16	18
	Capacity	Cooling (Rated)	kW	40.0	45.0	50.4
		Heating (Rated)	kW	40.0	45.0	50.4
		Heating (Max)	kW	45.0	50.4	56.7
	mber of connectable indoor units		EA	26	29	32
Total capacity	of the connected Indoor Units	Min.	kW	20.0	22.5	25.2
		Max.	kW	52.0	58.5	65.5
Power	Power Input (Ducted)	Cooling (Rated)	kW	10.93	11.63	13.64
		Heating (Rated)	kW	9.03	10.08	10.78
		Heating (Max)	kW	10.82	12.08	12.92
	Power Input (Non-Ducted)	Cooling (Rated)	kW	13.70	14.02	14.08
		Heating (Rated)	kW	10.58	12.75	12.76
		Heating (Max)	kW	12.68	15.27	15.28
	Current Input (Ducted)	Cooling (Rated)	Α	17.50	18.70	21.90
	·	Heating (Rated)	Α	14.50	16.20	17.30
		Heating (Max)	Α	17.40	19.40	20.70
	Current Input (Non-Ducted)	Cooling (Rated)	Α	22.00	22.50	22.60
		Heating (Rated)	Α	17.00	20.40	20.50
		Heating (Max)	Α	20.30	24.50	24.50
	Current	Minimum Ssc	MVA	5.4	7.2	8.8
		MCA	Α	25.0	32.0	39.2
		MFA	Α	32	40	50
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.66	3.87	3.70
	COP (Ducted)	Heating (Rated)	W/W	4.43	4.46	4.68
		Heating (Max)	W/W	4.16	4.17	4.39
	EER (Non-Ducted)	Cooling (Rated)	W/W	2.92	3.21	3.58
	COP (Non-Ducted)	Heating (Rated)	W/W	3.78	3.53	3.95
		Heating (Max)	W/W	3.55	3.30	3.71
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	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 x1	Inverter Scroll x1	Inverter Scroll x 1
	Output		kWxn	6.39 x1	7.81 x 1	7.81 x 1
	Model Name		-	DS-GB066FAV* x1	DS4GJ5080FV* x1	DS4GJ5080FV* x1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x1	1,400 x1	1,400 x1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min	255	255	290
			l/s	4,250	4,250	4,833
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	620 x 2	620 x 2	620 x 2

Type				DVMS	DVM S	DVMS
Model Name				AM140KXVAGH/ET	AM160KXVAGH/ET	AM180KXVAGH/ET
	Outdoor unit module 1			-	-	-
Outdoor unit module 2				_	-	-
	Outdoor unit module 3			_	-	_
	Outdoor unit module 4			-	-	-
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
	High pressure Gas Pipe(HR Only)	Type	-	-	-
			Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	7.7	8.4	8.4
			tCO₂e	16.08	17.54	17.54
Sound	Sound Pressure	Cooling	dB(A)	61	63	64
		Heating	dB(A)	63	67	67
	Sound Power		dB(A)	81	83	84
External	Net Weight		kg	226.0 246.0	253.0	255.0
Dimension		Shipping Weight kg			273.0	275.0
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power:1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Type Model Name				DVM S AM200KXVAGH/ET	DVM S AM220KXVAGH/ET	DVM S AM240KXVAGH/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	20	22	24
Cironnance	Capacity	Cooling (Rated)	kW	56.0	61.6	67.2
	capacity	Heating (Rated)	kW	56.0	58.0	67.2
		Heating (Max)	kW	63.0	69.3	75.6
Mavimum nur	nber of connectable indoor units		EA	36	40	43
	of the connected Indoor Units	Min.	kW	28.0	30.8	33.6
iotal capacity	of the connected indoor offits	Max.	kW	72.8	80.1	87.4
Power	Power Input (Ducted)	Cooling (Rated)	kW	16.23	18.53	20.99
Powei	Power input (Ducted)	Heating (Rated)	kW	12.17	12.89	14.91
			kW			
	Devestance (New Dusted)	Heating (Max)		14.58	16.94	17.86
	Power Input (Non-Ducted)	Cooling (Rated)	kW	18.36	21.39	20.06
		Heating (Rated)	kW	13.83	15.10	16.80
		Heating (Max)	kW	16.58	19.86	20.16
	Current Input (Ducted)	Cooling (Rated)	A	26.00	29.70	33.70
		Heating (Rated)	Α	19.50	20.70	23.90
		Heating (Max)	Α	23.40	27.20	28.60
	Current Input (Non-Ducted)	Cooling (Rated)	Α	29.40	34.30	32.20
		Heating (Rated)	Α	22.20	24.20	26.90
		Heating (Max)	Α	26.60	31.90	32.30
	Current	Minimum Ssc	MVA	8.1	8.6	12.5
		MCA	Α	42.0	44.6	55.0
		MFA	Α	63	63	63
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.45	3.32	3.20
	COP (Ducted)	Heating (Rated)	W/W	4.60	4.50	4.51
		Heating (Max)	W/W	4.32	4.09	4.23
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.05	2.88	3.35
	COP (Non-Ducted)	Heating (Rated)	W/W	4.05	3.84	4.00
		Heating (Max)	W/W	3.80	3.49	3.75
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Lasing	Materiat	Base		EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Туре	Dase		Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin		Al	Al	Al
-xcriariger	Materiat	Tube		Cu	Cu	Cu
	Fin Treatment	Tube		Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type			Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
Lompressor	Output		kWxn	5.18 x 2	6.39 x 2	6.39 x 2
	Model Name			DS-GB052FAV* x 2	DS-GB066FAV* x 2	DS-GB066FAV* x 2
	Oil	Туре		PVE PVE	PVE PVE	PVE PVE
	Oit	Initial charge		1,100 x 2	1,100 x 2	1,100 x 2
an	Type	illitiat charge	<u> </u>	Propeller	Propeller	Propeller
all	Discharge direction					
				Тор	Тор	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min	290	290	340
	- 10 11 -		l/s	4,833	4,833	5,667
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	620 x 2	620 x 2	620 x 2

Type				DVMS	DVM S	DVMS
Model Name				AM200KXVAGH/ET	AM220KXVAGH/ET	AM240KXVAGH/ET
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections					15.88 (5/8)	15.88 (5/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
	· ·		Φ, mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)
	High pressure Gas Pipe(HR Only)	Type	-	-	-
			Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	8.4	8.4	14.0
			tCO₂e	17.54	17.54	29.23
Sound	Sound Pressure	Cooling	dB(A)	65	65	66
		Heating	dB(A)	67	67	69
	Sound Power		dB(A)	87	89	89
External	Net Weight		kg	282.0	290.0	342.0
Dimension	Shipping Weight		kg	302.0 1,295 x 1,695 x 765	310.0	364.0
		Net Dimensions (WxHxD) mm			1,295 x 1,695 x 765	1,295 x 1,795 x 765
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,987 x 832
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power:1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVMS
Model Name				AM260KXVAGH/ET	AM280KXVAGH1ET	AM300KXVAGH1ET
	Outdoor unit module 1			-	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			-	AM160KXVAGH/ET	AM180KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4		Ø, #, V, Hz	-	-	-
Power Supply	pply			3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	26	28	30
	Capacity	Cooling (Rated)	kW	72.8	78.6	84.0
		Heating (Rated)	kW	72.8	78.6	84.0
		Heating (Max)	kW	81.9	88.2	94.5
	nber of connectable indoor units		EA	47	51	54
Total capacity	of the connected Indoor Units	Min.	kW	36.4	39.3	42.0
		Max.	kW	94.6	102.2	109.2
Power	Power Input (Ducted)	Cooling (Rated)	kW	22.47	19.79	21.80
		Heating (Rated)	kW	16.51	17.21	17.91
		Heating (Max)	kW	19.78	20.62	21.46
	PowerInput (Non-Ducted)	Cooling (Rated)	kW	23.26	24.79	24.85
		Heating (Rated)	kW	19.11	21.21	21.22
		Heating (Max)	kW	22.88	25.40	25.41
	Current Input (Ducted)	Cooling (Rated)	A	36.00	31.80	35.00
	carrent input (Bacteu)	Heating (Rated)	A	26.50	27.60	28.70
		Heating (Max)	A	31.70	33.10	34.40
	Current Input (Non-Ducted)	Cooling (Rated)	A	37.30	39.80	39.90
	current input (Non Bucteu)	Heating (Rated)	A	30.60	34.00	34.10
		Heating (Max)	A	36.70	40.70	40.70
	Current	Minimum Ssc	MVA	12.2	12.5	14.1
	Current	MCA	A	60.0	57.0	64.2
		MFA	A	75	75	75
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.24	3.97	3.85
	COP (Ducted)	Heating (Rated)	W/W	4.41	4.57	4.69
	(20000)	Heating (Max)	W/W	4.14	4.28	4.40
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.13	3.17	3.38
	COP (Non-Ducted)	Heating (Rated)	W/W	3.81	3.71	3.96
	COT (NOTE Ducted)	Heating (Max)	W/W	3.58	3.47	3.72
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Casing	Materiat	Base		EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Туре	Dase	_	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	_	Al	Al	Al
Exchanger	Fideeriat	Tube	_	Cu	Cu	Cu
	Fin Treatment	1000	_	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		_	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
Compressor	Output		kWxn	6.39 x 2	(6.39 x 1) x 1 + (7.81 x 1) x 1	(6.39 x 1) x 1 + (7.81 x 1) x 1
	Model Name		-	DS-GB066FAV* x 2	(DS-GB066FAV* x1) x1 + (DS4GJ5080FV* x1) x1	(DS-GB066FAV* x1) x1 + (DS4GJ5080FV* x1) x1
	Oil	Туре	_	PVE	PVE PVE	PVE PVE
		Initial charge	cc x n	1,100 x 2		(1,100 x 1) x 1 + (1,400 x 1) x
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity				3	3
Air Flow Rate			EA m³/min	2 340	220 x1 + 255 x1	220 x1 + 290 x1
			l/s	5,667	3,667 x1 + 4,250 x1	3,667 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
	Externat otatic Fressure	I-IUA.	Pa	78.45	78.45	78.45
Fan Motor	Туре			BLDC Motor	BLDC Motor	BLDC Motor
1 411 1-10(01	Output		Wxn	620 x 2	(830 x 1) x 1 + (620 x 2) x 1	(830 x 1) x 1 + (620 x 2) x 1

Type				DVMS	DVMS	DVMS
Model Name				AM260KXVAGH/ET	AM280KXVAGH1ET	AM300KXVAGH1ET
	Outdoor unit module 1			-	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			_	AM160KXVAGH/ET	AM180KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			_	_	_
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections	qa.apo		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
	333.1		Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
	High pressure Gas Pipe(HR Only	')	Type	-	-	-
	3 /	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	14.0	6.5 x1 + 8.4 x1	6.5 x1 + 8.4 x1
			tCO₂e	29.23	31.11	31.11
Sound	Sound Pressure	Cooling	dB(A)	66	66	66
		Heating	dB(A)	69	69	69
	Sound Power		dB(A)	89	85	86
External	Net Weight		kg	350.0	210.0 x1 + 253.0 x1	210.0 x1 + 255.0 x1
Dimension	Shipping Weight		kg	372.0	217.0 x1 + 273.0 x1	217.0 x1 + 275.0 x1
	Net Dimensions (WxHxD)		mm	1,295 x 1,795 x 765	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,987 x 832	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVMS
Model Name				AM320KXVAGH1ET	AM340KXVAGH1ET	AM360KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM140KXVAGH/ET
	Outdoor unit module 2			AM200KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	32	34	36
	Capacity	Cooling (Rated)	kW	89.6	95.2	101.6
		Heating (Rated)	kW	89.6	91.6	98.0
		Heating (Max)	kW	100.8	107.1	114.3
Maximum nun	nber of connectable indoor units		EA	58	61	64
Total capacity	of the connected Indoor Units	Min.	kW	44.8	47.6	50.8
		Max.	kW	116.5	123.8	132.1
Power	PowerInput (Ducted)	Cooling (Rated)	kW	24.39	26.69	29.46
	·	Heating (Rated)	kW	19.30	20.02	21.92
		Heating (Max)	kW	23.12	25.48	27.76
	PowerInput (Non-Ducted)	Cooling (Rated)	kW	29.13	32.16	35.09
		Heating (Rated)	kW	22.29	23.56	25.68
		Heating (Max)	kW	26.71	29.99	32.54
	Current Input (Ducted)	Cooling (Rated)	A	39.10	42.80	47.20
	Carron par (2 acca,	Heating (Rated)	A	30.90	32.10	35.20
		Heating (Max)	A	37.10	40.90	44.60
	Current Input (Non-Ducted)	Cooling (Rated)	A	46.70	51.60	56.30
	carrent inpactition Bactea,	Heating (Rated)	A	35.80	37.80	41.20
		Heating (Max)	A	42.80	48.10	52.20
	Current	Minimum Ssc	MVA	13.4	13.9	14.0
	Carrent	MCA	A	67.0	69.6	69.6
		MFA	A	75	80	80
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.67	3.57	3.45
	COP (Ducted)	Heating (Rated)	W/W	4.64	4.58	4.47
	, , , , , , , , , , , , , , , , , , , ,	Heating (Max)	W/W	4.36	4.20	4.12
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.08	2.96	2.90
	COP (Non-Ducted)	Heating (Rated)	W/W	4.02	3.89	3.82
	Co. (i.io.i. Duotou)	Heating (Max)	W/W	3.77	3.57	3.51
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
casing	i idearide	Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Туре	Dasc	-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
J		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 3	Inverter Scroll x 3
· ·	Output		kWxn	(6.39 x 1) x 1 + (5.18 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (6.39 x 2) x 1
	Model Name			(DS-GB066FAV* x1) x1+	(DS-GB066FAV* x1) x1+	(DS-GB066FAV* x 1) x 1 +
			-	(DS-GB052FAV* x 2) x1	(DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 2) x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	3	3	4
	Air Flow Rate		m³/min	220 x1 + 290 x1	220 x1 + 290 x1	255 x 1 + 290 x 1
			l/s	3,667 x 1 + 4,833 x 1	3,667 x 1 + 4,833 x 1	4,250 x 1 + 4,833 x 1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	(830 x1) x1 + (620 x 2) x1	(830 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2

Type				DVMS	DVMS	DVMS
Model Name				AM320KXVAGH1ET	AM340KXVAGH1ET	AM360KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM140KXVAGH/ET
	Outdoor unit module 2			AM200KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			_	_	_
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	41.28 (1-5/8)
	High pressure Gas Pipe(HR Only)	Type	-	-	-
	,	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	6.5 x1 + 8.4 x1	6.5 x1 + 8.4 x1	7.7 x 1 + 8.4 x 1
			tCO₂e	31.11	31.11	33.62
Sound	Sound Pressure	Cooling	dB(A)	67	67	66
		Heating	dB(A)	69	69	68
	Sound Power		dB(A)	88	90	90
External	Net Weight		kg	210.0 x1 + 282.0 x1	210.0 x 1 + 290.0 x 1	226.0 x1 + 290.0 x1
Dimension	Shipping Weight		kg	217.0 x1 + 302.0 x1	217.0 x1 + 310.0 x1	246.0 x1 + 310.0 x1
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(1,363 x 1,887 x 832) x 2
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVM S
Model Name				AM380KXVAGH1ET	AM400KXVAGH1ET	AM420KXVAGH1ET
	Outdoor unit module 1			AM160KXVAGH/ET	AM180KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	38	40	42
	Capacity	Cooling (Rated)	kW	106.6	112.0	117.6
		Heating (Rated)	kW	103.0	108.4	114.0
		Heating (Max)	kW	119.7	126.0	132.3
Maximum nun	nber of connectable indoor units		EA	64	64	64
Total capacity	of the connected Indoor Units	Min.	kW	53.3	56.0	58.8
		Max.	kW	138.6	145.6	152.9
Power	Power Input (Ducted)	Cooling (Rated)	kW	30.16	32.17	34.76
	•	Heating (Rated)	kW	22.97	23.67	25.06
		Heating (Max)	kW	29.02	29.86	31.52
	Power Input (Non-Ducted)	Cooling (Rated)	kW	35.41	35.47	39.75
		Heating (Rated)	kW	27.85	27.86	28.93
		Heating (Max)	kW	35.13	35.14	36.44
	Current Input (Ducted)	Cooling (Rated)	A	48.40	51.60	55.70
	Carrent input (Bucteu)	Heating (Rated)	A	36.90	38.00	40.20
		Heating (Max)	A	46.60	47.90	50.60
	Current Input (Non-Ducted)	Cooling (Rated)	A	56.80	56.90	63.70
	Current input (Non-Ducteu)	Heating (Rated)	A	44.60	44.70	46.40
		Heating (Max)	Ā	56.40	56.40	58.50
	Current	Minimum Ssc	MVA	15.8	17.4	16.7
	Current	MCA	A	76.6	83.8	86.6
		MFA	Ā	90	100	100
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.53	3.48	3.38
Linciency	COP (Ducted)	Heating (Rated)	W/W	4.48	4.58	4.55
	COT (Ducted)	Heating (Max)	W/W	4.12	4.22	4.20
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.01	3.16	2.96
			W/W	3.70		3.94
	COP (Non-Ducted)	Heating (Rated)			3.89	
<u> </u>	N	Heating (Max)	W/W	3.41	3.59	3.63
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Total	Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Type	Fin.	-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
	E's Taradan and	Tube	-	Cu	Cu	Cu
C	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 3	Inverter Scroll x 3	Inverter Scroll x 4
	Output		kW x n	(7.81 x 1) x 1 + (6.39 x 2) x 1	(7.81 x 1) x 1 + (6.39 x 2) x 1	(5.18 x 2) x 1 + (6.39 x 2) x 1
	Model Name		_	(DS4GJ5080FV* x1) x1+	(DS4GJ5080FV* x1) x1+	(DS-GB052FAV* x 2) x1+
	Oil	Time		(DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 2) x 1	(DS-GB066FAV* x 2) x 1
	Oil	Type	-	PVE	PVE (1400 v1) v1 + (1100 v2) v1	PVE (1100 x 2) x 2
Ean	Type	Initial charge	cc x n		(1,400 x 1) x 1 + (1,100 x 2) x 1	
Fan	Type Discharge direction		-	Propeller	Propeller	Propeller
	Discharge direction			Тор	Тор	Top
Quantity			EA m3/min	4	300 x 3	300 x 3
	Air Flow Rate		m³/min	255 x1 + 290 x1	290 x 2	290 x 2
	E to and Challe D	114-	l/s	4,250 x1 + 4,833 x1	4,833 x 2	4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
	_		Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 2

Type				DVMS	DVMS	DVMS
Model Name				AM380KXVAGH1ET	AM400KXVAGH1ET	AM420KXVAGH1ET
	Outdoor unit module 1			AM160KXVAGH/ET	AM180KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			_	_	_
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections	Liquid i ipc		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Connections	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
	Gust the		Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	High pressure Gas Pipe(HR Only)	Type	-	- 41.20 (1 3/0)	-
	Thigh pressure dust ipe(int only	,	Φ. mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg	8.4 x 2	8.4 x 2	8.4 x 2
			tCO₂e	35.08	35.08	35.08
Sound	Sound Pressure	Cooling	dB(A)	67	68	68
		Heating	dB(A)	70	70	70
	Sound Power		dB(A)	90	90	91
External	External Net Weight		kg	253.0 x1 + 290.0 x1	255.0 x1 + 290.0 x1	282.0 x1 + 290.0 x1
Dimension	Shipping Weight				275.0 x1 + 310.0 x1	302.0 x1 + 310.0 x1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power:1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVM S
Model Name				AM440KXVAGH1ET	AM460KXVAGH1ET	AM480KXVAGH1ET
· iouctituine	Outdoor unit module 1			AM220KXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM120JXVAGH/ET	AM140KXVAGH/ET
	Outdoor unit module 3			AMZZONAVAGII/LI	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			_	AMZZONAVAGII/LI	AMZZONAVAGII/LI
Dowor Supply	*	Ø, #, V, Hz	Z // Z00 //15 50	3, 4, 380-415, 50	3, 4, 380-415, 50	
Power Supply			Ø, #, V, ⊓Z	3, 4, 380-415, 50		
Mode	LID		-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP	6 11 (5 1 1)	HP	44	46	48
	Capacity	Cooling (Rated)	kW	123.2	128.8	135.2
		Heating (Rated)		116.0	125.2	131.6
		Heating (Max)	kW	138.6	144.9	152.1
	mber of connectable indoor units		EA	64	64	64
lotal capacity	of the connected Indoor Units	Min.	kW	61.6	64.4	67.6
	T	Max.	kW	160.2	167.4	175.8
Power	Power Input (Ducted)	Cooling (Rated)	kW	37.06	34.85	37.62
		Heating (Rated)	kW	25.78	27.15	29.05
		Heating (Max)	kW	33.88	34.02	36.30
	Power Input (Non-Ducted)	Cooling (Rated)	kW	42.78	42.93	45.86
		Heating (Rated)	kW	30.20	32.02	34.14
		Heating (Max)	kW	39.72	40.12	42.67
	Current Input (Ducted)	Cooling (Rated)	Α	59.40	55.90	60.30
	•	Heating (Rated)	Α	41.40	43.50	46.60
		Heating (Max)	Α	54.40	54.60	58.30
	Current Input (Non-Ducted)	Cooling (Rated)	Α	68.60	68.90	73.60
		Heating (Rated)	Α	48.40	51.40	54.80
		Heating (Max)	А	63.80	64.30	68.40
	Current	Minimum Ssc	MVA	17.2	19.2	19.3
		MCA	Α	89.2	94.6	94.6
		MFA	A	100	125	125
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.32	3.70	3.59
,	COP (Ducted)	Heating (Rated)	W/W	4.50	4.61	4.53
	65. (245164)	Heating (Max)	W/W	4.09	4.26	4.19
	EER (Non-Ducted)	Cooling (Rated)	W/W	2.88	3.00	2.95
	COP (Non-Ducted)	Heating (Rated)	W/W	3.84	3.91	3.85
	COI (NOII Ducteu)	Heating (Max)	W/W	3.49	3.61	3.56
Casina	Material		-			
Casing	Material	Body		EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Hook	Time	Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate Fin & Tube
Heat	Type	Fin-	-	Fin & Tube	Fin & Tube	
Exchanger	Material	Fin	-	Al	Al	Al
	F' - T t t	Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.39 x 2) x 2	(6.39 x 1) x 2 + (6.39 x 2) x 1	(6.39 x 1) x 2 + (6.39 x 2) x 1
	Model Name		-	(DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x1) x 2 + (DS-GB066FAV* x 2) x1	(DS-GB066FAV* x1) x 2 + (DS-GB066FAV* x 2) x1
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 1) x 2 + (1,100 x 2) x 1	
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	4	4	5
	Air Flow Rate		m³/min	290 x 2	220 x 2 + 290 x 1	220 x1 + 255 x1 + 290 x1
7 III TOWNSCO			l/s	4,833 x 2	3,667 x 2 + 4,833 x 1	3,667 x1 + 4,250 x1 + 4,833 x1
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
Tan Motor	Output		Wxn	(620 x 2) x 2		(830 x 1) x 1 + (620 x 2) x 2
	Juiput		AA VII	(020 / 2/ / 2	1 (020 11) 1 2 1 (020 12) 1	[(O2O V I) V I , (O7O V 7) Y 7

Type				DVMS	DVMS	DVMS
Model Name				AM440KXVAGH1ET	AM460KXVAGH1ET	AM480KXVAGH1ET
	Outdoor unit module 1			AM220KXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM120JXVAGH/ET	AM140KXVAGH/ET
	Outdoor unit module 3			-	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	High pressure Gas Pipe(HR Only	')	Type	-	-	-
	, y	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg	8.4 x 2	6.5 x 2 + 8.4 x 1	6.5 x1 + 7.7 x1 + 8.4 x1
			tCO₂e	35.08	44.68	47.19
Sound	Sound Pressure	Cooling	dB(A)	68	68	68
		Heating	dB(A)	70	70	70
	Sound Power		dB(A)	92	90	90
External	Net Weight		kg	290.0 x 2	210.0 x 2 + 290.0 x 1	210.0 x1 + 226.0 x1 + 290.0 x1
Dimension	Shipping Weight		kg	310.0 x 2	217.0 x 2 + 310.0 x 1	217.0 x 1 + 246.0 x 1 + 310.0 x 1
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 2 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 2 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVMS
Model Name				AM500KXVAGH1ET	AM520KXVAGH1ET	AM540KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM160KXVAGH/ET	AM180KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	50	52	54
	Capacity	Cooling (Rated)	kW	140.2	145.6	151.2
		Heating (Rated)	kW	136.6	142.0	147.6
		Heating (Max)	kW	157.5	163.8	170.1
Maximum nun	nber of connectable indoor units		EA	64	64	64
	of the connected Indoor Units	Min.	kW	70.1	72.8	75.6
iotal capacity	of the connected indoor offits	Max.	kW	182.3	189.3	196.6
D	D					
Power	Power Input (Ducted)	Cooling (Rated)	kW	38.32	40.33	42.92
		Heating (Rated)	kW	30.10	30.80	32.19
		Heating (Max)	kW	37.56	38.40	40.06
	Power Input (Non-Ducted)	Cooling (Rated)	kW	46.18	46.24	50.52
		Heating (Rated)	kW	36.31	36.32	37.39
		Heating (Max)	kW	45.26	45.27	46.57
	Current Input (Ducted)	Cooling (Rated)	A	61.50	64.70	68.80
	Carrent Input (Ducteu)	Heating (Rated)	A	48.30	49.40	51.60
		Heating (Max)	A	60.30	61.60	64.30
	Current Input (Non Ducted)	Cooling (Rated)	A	74.10	74.20	81.00
	Current Input (Non-Ducted)					
		Heating (Rated)	A	58.20	58.30	60.00
		Heating (Max)	Α	72.60	72.60	74.70
	Current	Minimum Ssc	MVA	21.1	22.7	22.0
		MCA	Α	101.6	108.8	111.6
		MFA	Α	125	125	125
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.66	3.61	3.52
	COP (Ducted)	Heating (Rated)	W/W	4.54	4.61	4.59
		Heating (Max)	W/W	4.19	4.27	4.25
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.04	3.15	2.99
	COP (Non-Ducted)	Heating (Rated)	W/W	3.76	3.91	3.95
	Co. (i.ion Dudieu)	Heating (Max)	W/W	3.48	3.62	3.65
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Casing	Material					
Heat	T	Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Type	F:		Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
	F: T .	Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 5
	Output		kW x n	(6.39 x 1) x 1 + (7.81 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (7.81 x 1) x 1 + (6.39 x 2) x 1	(6.39 x 1) x 1 + (5.18 x 2) x 1 (6.39 x 2) x 1
	Model Name		-	(DS-GB066FAV* x1) x1 + (DS4GJ5080FV* x1) x1 + (DS-GB066FAV* x2) x1	(DS-GB066FAV* x1) x1 + (DS4GJ5080FV* x1) x1 + (DS-GB066FAV* x2) x1	(DS-GB066FAV* x1) x1 + (DS-GB052FAV* x2) x1 + (DS-GB066FAV* x2) x1
	Oil	Туре	-	PVE	PVE PVE	PVE
	Oit	Initial charge	cc x n	(1,100 x1) x1 + (1,400 x1) x1	(1,100 x 1) x 1 + (1,400 x 1) x 1	(1,100 x 1) x 1 + (1,100 x 2) x
Fan	Type			+ (1,100 x 2) x 1 Propeller	+ (1,100 x 2) x 1	Droneller
Fan	Type		-		Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	5	5	5
	Air Flow Rate		m³/min	220 x1 + 255 x1 + 290 x1	220 x1 + 290 x 2	220 x1 + 290 x 2
			l/s	3,667 x1 + 4,250 x1 + 4,833 x1	3,667 x 1 + 4,833 x 2	3,667 x 1 + 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
		1.00.0	Pa	78.45	78.45	78.45
	Туре		1 0	BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor						

Type				DVMS	DVMS	DVMS
Model Name				AM500KXVAGH1ET	AM520KXVAGH1ET	AM540KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM160KXVAGH/ET	AM180KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Piping			Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	High pressure Gas Pipe(HR Only	')	Type	-	-	-
	, y	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg	6.5 x 1 + 8.4 x 2	6.5 x 1 + 8.4 x 2	6.5 x 1 + 8.4 x 2
		,	tCO₂e	48.65	48.65	48.65
Sound	Sound Pressure	Cooling	dB(A)	68	69	69
		Heating	dB(A)	71	71	71
	Sound Power		dB(A)	90	91	92
External	Net Weight		kg		210.0 x1 + 255.0 x1 + 290.0 x1	
Dimension	Shipping Weight		kg	217.0 x1 + 273.0 x1 + 310.0 x1	217.0 x1 + 275.0 x1 + 310.0 x1	217.0 x 1 + 302.0 x 1 + 310.0 x 1
	Net Dimensions (WxHxD)	Net Dimensions (WxHxD)		(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVMS
Model Name				AM560KXVAGH1ET	AM580KXVAGH1ET	AM600KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM140KXVAGH/ET	AM160KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	56	58	60
	Capacity	Cooling (Rated)	kW	156.8	163.2	168.2
	capacity	Heating (Rated)	kW	149.6	156.0	161.0
		Heating (Max)	kW	176.4	183.6	189.0
Maximum number of connectable indoor units		EA	64	64	64	
	of the connected Indoor Units	Min.	kW	78.4	81.6	84.1
rotat capacity	of the confidence major office	Max.	kW	203.8	212.2	218.7
Power	Power Input (Ducted)	Cooling (Rated)	kW	45.22	47.99	48.69
rowei	Fower input (Ducteu)	Heating (Rated)	kW	32.91	34.81	35.86
		Heating (Max)	kW	42.42	44.70	45.96
	Dower Input (Non Ducted)					
	Power Input (Non-Ducted)	Cooling (Rated)	kW	53.55	56.48	56.80
		Heating (Rated)	kW	38.66	40.78	42.95
		Heating (Max)	kW	49.85	52.40	54.99
	Current Input (Ducted)	Cooling (Rated)	A	72.50	76.90	78.10
		Heating (Rated)	A	52.80	55.90	57.60
		Heating (Max)	Α	68.10	71.80	73.80
	Current Input (Non-Ducted)	Cooling (Rated)	Α	85.90	90.60	91.10
		Heating (Rated)	Α	62.00	65.40	68.80
		Heating (Max)	Α	80.00	84.10	88.30
	Current	Minimum Ssc	MVA	22.5	22.6	24.4
		MCA	Α	114.2	114.2	121.2
		MFA	Α	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.47	3.40	3.45
	COP (Ducted)	Heating (Rated)	W/W	4.55	4.48	4.49
		Heating (Max)	W/W	4.16	4.11	4.11
	EER (Non-Ducted)	Cooling (Rated)	W/W	2.93	2.89	2.96
	COP (Non-Ducted)	Heating (Rated)	W/W	3.87	3.83	3.75
		Heating (Max)	W/W	3.54	3.50	3.44
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
casing	Plateriat	Base	_	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Туре	Dasc	-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	_	Al	Al	Al
Lacitatige	Plateriat	Tube	_	Cu	Cu	Cu
	Fin Treatment	Tube	_	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		_	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 5
Compressor	Output		kWxn			(7.81 x 1) x 1 + (6.39 x 2) x 2
	Model Name		KVVAII	(DS-GB066FAV* x1) x1+	(DS-GB066FAV* x1) x1+	(DS4GJ5080FV* x1) x1+
	Model Name		-	(DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 2) x 2
	Oil	Typo		PVE	PVE	PVE
	Oit	Type Initial charge	- ccvn			(1,400 x 1) x 1 + (1,100 x 2) x 2
Гол	Time	initial charge	cc x n	1		
Fan	Type Discharge direction		-	Propeller	Propeller	Propeller
			-	Top	Тор	Тор
	Quantity		EA	5	6	6
	Air Flow Rate		m³/min	220 x1 + 290 x 2	255 x1 + 290 x 2	255 x1 + 290 x 2
		1.,	l/s	3,667 x 1 + 4,833 x 2	4,250 x1 + 4,833 x 2	4,250 x 1 + 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	(830 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3	(620 x 2) x 3

Type				DVMS	DVMS	DVMS
Model Name				AM560KXVAGH1ET	AM580KXVAGH1ET	AM600KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM140KXVAGH/ET	AM160KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	High pressure Gas Pipe(HR Only)	Type	-	-	-
	,	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	6.5 x 1 + 8.4 x 2	7.7 x 1 + 8.4 x 2	8.4 x 3
			tCO₂e	48.65	51.16	52.62
Sound	Sound Pressure	Cooling	dB(A)	69	69	69
		Heating	dB(A)	71	71	72
	Sound Power		dB(A)	92	92	93
External	Net Weight kg			210.0 x1 + 290.0 x 2	226.0 x1 + 290.0 x 2	253.0 x1 + 290.0 x 2
Dimension	Shipping Weight		kg	217.0 x1 + 310.0 x 2	246.0 x 1 + 310.0 x 2	273.0 x1 + 310.0 x 2
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVM S
Model Name				AM620KXVAGH1ET	AM640KXVAGH1ET	AM660KXVAGH1ET
	Outdoor unit module 1			AM180KXVAGH/ET	AM200KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			, π, ν, τι <u>Σ</u>	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	62	64	66
renomiance	Capacity	Cooling (Rated)	kW	173.6	179.2	184.8
	Capacity	Heating (Rated)	kW	166.4	172.0	174.0
		Heating (Max)	kW	195.3	201.6	207.9
Maximum number of connectable indoor units			EA	64	64	64
	of the connected Indoor Units	Min.	kW	86.8	89.6	92.4
Total Capacity	of the connected indoor offits	Max.	kW	225.7	233.0	240.2
Davier	Dower Innut (Duetod)					
Power	Power Input (Ducted)	Cooling (Rated)	kW	50.70	53.29	55.59
		Heating (Rated)	kW	36.56	37.95	38.67
	Developed All Dates	Heating (Max)	kW	46.80	48.46	50.82
	Power Input (Non-Ducted)	Cooling (Rated)	kW	56.86	61.14	64.17
		Heating (Rated)	kW	42.96	44.03	45.30
		Heating (Max)	kW	55.00	56.30	59.58
	Current Input (Ducted)	Cooling (Rated)	Α	81.30	85.40	89.10
		Heating (Rated)	Α	58.70	60.90	62.10
		Heating (Max)	Α	75.10	77.80	81.60
	Current Input (Non-Ducted)	Cooling (Rated)	Α	91.20	98.00	102.90
	•	Heating (Rated)	Α	68.90	70.60	72.60
		Heating (Max)	А	88.30	90.40	95.70
	Current	Minimum Ssc	MVA	26.0	25.3	25.8
		MCA	А	128.4	131.2	133.8
		MFA	A	150	150	150
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.42	3.36	3.32
,	COP (Ducted)	Heating (Rated)	W/W	4.55	4.53	4.50
		Heating (Max)	W/W	4.17	4.16	4.09
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.05	2.93	2.88
	COP (Non-Ducted)	Heating (Rated)	W/W	3.87	3.91	3.84
	COF (Non-Bucteu)	Heating (Max)	W/W	3.55	3.58	3.49
Casina	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Casing	Material		1			
Heat	Tuno	Base	-	EGI Steel Plate Fin & Tube	EGI Steel Plate	EGI Steel Plate
	Type Material	Fin.	-		Fin & Tube	Fin & Tube
Exchanger	Material	Fin Tube	-	Al Cu	Al Cu	Al Cu
	Fin Treatment	Tube	-			
Compressi	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		- IdMac m	Inverter Scroll x 5	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(7.81 x 1) x 1 + (6.39 x 2) x 2		(6.39 x 2) x 3
	Model Name		-	(DS4GJ5080FV* x1) x1 + (DS-GB066FAV* x2) x2	(DS-GB052FAV* x 2) x 1 + (DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 2) x 3
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,400 x1) x1 + (1,100 x 2) x 2	(1,100 x 2) x 3	(1,100 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	6	6	6
	Air Flow Rate		m³/min	290 x 3	290 x 3	290 x 3
			l/s	4,833 x 3	4,833 x 3	4,833 x 3
	External Static Pressure	Max.	mmAq	8	8	8
		I-IUA.				
			Da	70 /15	70 //5	70 //5
Fan Motor	Туре		Pa	78.45 BLDC Motor	78.45 BLDC Motor	78.45 BLDC Motor

Type				DVMS	DVMS	DVMS
Model Name				AM620KXVAGH1ET	AM640KXVAGH1ET	AM660KXVAGH1ET
	Outdoor unit module 1			AM180KXVAGH/ET	AM200KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			-	-	-
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
Connections	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
	dastipe		Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)	Type	33.70 (2 1/0)	33.70 (2 1/0)	33.70 (2 1/0)
	Thigh pressure dust ipe(int only	,	Φ. mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Туре		-	R410A	R410A	R410A
	Factory Charging		kg	8.4 x 3	8.4 x 3	8.4 x 3
			tCO₂e	52.62	52.62	52.62
Sound	Sound Pressure	Cooling	dB(A)	69	70	70
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	93	93	94
External	rnal Net Weight		kg	255.0 x1 + 290.0 x 2	282.0 x1 + 290.0 x 2	290.0 x 3
Dimension	Shipping Weight		kg	275.0 x1 + 310.0 x 2	302.0 x1 + 310.0 x 2	310.0 x 3
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 3
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power:1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS	DVM S
Model Name				AM680KXVAGH1ET	AM700KXVAGH1ET	AM720KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM120JXVAGH/ET	AM140KXVAGH/ET	AM160KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	68	70	72
Cironnance	Capacity	Cooling (Rated)	kW	190.4	196.8	201.8
	capacity	Heating (Rated)	kW	183.2	189.6	194.6
		Heating (Max)	kW	214.2	221.4	226.8
Mavimum nun	nber of connectable indoor units		EA	64	64	64
	of the connected Indoor Units	Min.	kW	95.2	98.4	100.9
Total capacity	or the connected indoor oring	Max.	kW	247.5	255.8	262.3
Power	Power Input (Ducted)	Cooling (Rated)	kW	53.38	56.15	56.85
rowei	rower input (Ducted)	Heating (Rated)	kW	40.04	41.94	42.99
		Heating (Max)	kW	50.96	53.24	54.50
	Dower Input (Non Dusted)					
	Power Input (Non-Ducted)	Cooling (Rated)	kW	64.32	67.25	67.57
		Heating (Rated)	kW	47.12	49.24	51.41
	C	Heating (Max)	kW	59.98	62.53	65.12
	Current Input (Ducted)	Cooling (Rated)	A	85.60	90.00	91.20
		Heating (Rated)	Α	64.20	67.30	69.00
		Heating (Max)	A	81.80	85.50	87.50
	Current Input (Non-Ducted)	Cooling (Rated)	A	103.20	107.90	108.40
		Heating (Rated)	A	75.60	79.00	82.40
		Heating (Max)	A	96.20	100.30	104.50
	Current	Minimum Ssc	MVA	27.8	27.9	29.7
		MCA	Α	139.2	139.2	146.2
		MFA	Α	175	175	175
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.57	3.50	3.55
	COP (Ducted)	Heating (Rated)	W/W	4.58	4.52	4.53
		Heating (Max)	W/W	4.20	4.16	4.16
	EER (Non-Ducted)	Cooling (Rated)	W/W	2.96	2.93	2.99
	COP (Non-Ducted)	Heating (Rated)	W/W	3.89	3.85	3.79
		Heating (Max)	W/W	3.57	3.54	3.48
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
3		Base	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Heat	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al	Al
,		Tube	-	Cu	Cu	Cu
	Fin Treatment	1	-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
·	Output		kW x n	(6.39 x 1) x 2 + (6.39 x 2) x 2	(6.39 x 1) x 2 + (6.39 x 2) x 2	(6.39 x 1) x 1 + (7.81 x 1) x 1 (6.39 x 2) x 2
	Model Name		-	(DS-GB066FAV* x1) x 2 + (DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x 1) x 2 + (DS-GB066FAV* x 2) x 2	(DS-GB066FAV* x1) x1 + (DS4GJ5080FV* x1) x1 + (DS-GB066FAV* x2) x2
	Oil	Туре	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 2 + (1,100 x 2) x 2	(1,100 x 1) x 2 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,400 x 1) x + (1,100 x 2) x 2
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	6	7	7
	Air Flow Rate		m³/min	220 x 2 + 290 x 2	220 x 1 + 255 x 1 + 290 x 2	220 x 1 + 255 x 1 + 290 x 2
			l/s	3,667 x 2 + 4,833 x 2	3,667 x1 + 4,250 x1 + 4,833 x 2	3,667 x1+4,250 x1+ 4,833 x 2
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	78.45	78.45	78.45
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	(830 x 1) x 2 + (620 x 2) x 2		

Type				DVMS	DVMS	DVMS
Model Name				AM680KXVAGH1ET	AM700KXVAGH1ET	AM720KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM120JXVAGH/ET	AM140KXVAGH/ET	AM160KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET	AM220KXVAGH/ET	AM220KXVAGH/ET
Piping	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
Connections			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only	')	Type	-	-	-
	, y	•	Φ, mm (inch)	-	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
connections		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit		Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg	6.5 x 2 + 8.4 x 2	6.5 x1 + 7.7 x1 + 8.4 x 2	6.5 x 1 + 8.4 x 3
			tCO₂e	62.22	64.73	66.19
Sound	Sound Pressure	Cooling	dB(A)	70	70	70
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	93 210.0 x 2 + 290.0 x 2	93	93
External		Net Weight kg				210.0 x1 + 253.0 x1 + 290.0 x 2
Dimension	Shipping Weight		kg	217.0 x 2 + 310.0 x 2		217.0 x1 + 273.0 x1 + 310.0 x 2
	Net Dimensions (WxHxD)	Net Dimensions (WxHxD)		(880 x 1,695 x 765) x 2 + (1,295 x 1,695 x 765) x 2	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 2 + (1,363 x 1,887 x 832) x 2	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS
Model Name				AM740KXVAGH1ET	AM760KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2			AM180KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET	AM220KXVAGH/ET
Power Supply	outdoor affic module 1		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode			-	HEAT PUMP	HEAT PUMP
Performance	HP		HP	74	76
criormance	Capacity	Cooling (Rated)	kW	207.2	212.8
	capacity	Heating (Rated)	kW	200.0	205.6
		Heating (Max)	kW	233.1	239.4
Maximum number of connectable indoor units		EA	64	64	
	of the connected Indoor Units	Min.	kW	103.6	106.4
otal capacity	of the connected indoor offits	Max.	kW	269.4	276.6
lower	Power Input (Ducted)	Cooling (Rated)	kW	58.86	61.45
Power	Power input (Ducted)				45.08
		Heating (Rated)	kW	43.69	
	Daniel (Marc Daniel II)	Heating (Max)	kW	55.34	57.00
	Power Input (Non-Ducted)	Cooling (Rated)	kW	67.63	71.91
		Heating (Rated)	kW	51.42	52.49
		Heating (Max)	kW	65.13	66.43
	Current Input (Ducted)	Cooling (Rated)	Α	94.40	98.50
		Heating (Rated)	Α	70.10	72.30
		Heating (Max)	Α	88.80	91.50
	Current Input (Non-Ducted)	Cooling (Rated)	Α	108.50	115.30
		Heating (Rated)	Α	82.50	84.20
		Heating (Max)	Α	104.50	106.60
	Current	Minimum Ssc	MVA	31.3	30.6
		MCA	Α	153.4	156.2
		MFA	Α	175	175
fficiency	EER (Ducted)	Cooling (Rated)	W/W	3.52	3.46
ŕ	COP (Ducted)	Heating (Rated)	W/W	4.58	4.56
		Heating (Max)	W/W	4.21	4.20
	EER (Non-Ducted)	Cooling (Rated)	W/W	3.06	2.96
	COP (Non-Ducted)	Heating (Rated)	W/W	3.89	3.92
	Co. (i.io.i. Ductou)	Heating (Max)	W/W	3.58	3.60
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
asing	Material	Base	-	EGI Steel Plate	EGI Steel Plate
leat	Туре	Dase		Fin & Tube	Fin & Tube
Exchanger	Material	Fin		Al	Al
Actialige	Material	Tube		Cu	Cu
	Fin Treatment	Tube		Anti-corrosion	Anti-corrosion
ompressor					
Compressor	Type			Inverter Scroll x 6 (6.39 x 1) x 1 + (7.81 x 1) x 1 +	Inverter Scroll x 7 (6.39 x 1) x 1 + (5.18 x 2) x 1 +
	Output		kW x n	(6.39 x 1) x 1 + (7.81 x 1) x 1 + (6.39 x 2) x 2	(6.39 x 2) x 2
	Model Name			(DS-GB066FAV* x1) x1 +	(DS-GB066FAV* x1) x1 +
	Model Name		_	(DS4GJ5080FV*x1)x1+	(DS-GB052FAV* x 2) x 1 +
			-	(DS-GB066FAV* x 2) x 2	(DS-GB032FAV* x 2) x 2
	Oil	Туре		PVE	PVE
	Oit	Initial charge		(1.100 x1) x1 + (1.400 x1) x1 + (1.100 x2) x2	(1,100 x 1) x 1 + (1,100 x 2) x 3
an	Typo	illitiat charge	cc x n	Propeller	(1,100 x 1) x 1 + (1,100 x 2) x 3 Propeller
an	Type Discharge direction				
	Discharge direction				Тор 7
	Quantity		EA m³/min	,	,
	Air Flow Rate		m³/min	220 x1 + 290 x 3	220 x1 + 290 x 3
	Estamal Challe Day	Mari	l/s	3,667 x1 + 4,833 x 3	3,667 x 1 + 4,833 x 3
	External Static Pressure	Max.	mmAq	8	8
	_		Pa	78.45	78.45
an Motor	Type		-	BLDC Motor	BLDC Motor
	Output		Wxn	(830 x 1) x 1 + (620 x 2) x 3	$(830 \times 1) \times 1 + (620 \times 2) \times 3$

Туре				DVMS	DVMS
Model Name				AM740KXVAGH1ET	AM760KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM120JXVAGH/ET
	Outdoor unit module 2	Outdoor unit module 2			AM200KXVAGH/ET
	Outdoor unit module 3			AM180KXVAGH/ET AM220KXVAGH/ET	AM220KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET	AM220KXVAGH/ET
Piping	Liquid Pipe		Type	Braze connection	Braze connection
Connections	· ·		Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
	· ·		Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)	Type	=	-
			Φ, mm (inch)	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75
connections		Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	6.5 x 1 + 8.4 x 3	6.5 x 1 + 8.4 x 3
			tCO₂e	66.19	66.19
Sound	Sound Pressure	Cooling	dB(A)	70	70
		Heating	dB(A)	72	72
	Sound Power		dB(A)	93	93
External	Net Weight		kg	210.0 x1 + 255.0 x1 + 290.0 x 2	210.0 x1 + 282.0 x1 + 290.0 x 2
Dimension	Shipping Weight		kg	217.0 x 1 + 275.0 x 1 + 310.0 x 2	217.0 x1 + 302.0 x1 + 310.0 x2
	Net Dimensions (WxHxD)	Net Dimensions (WxHxD)		(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

Туре				DVMS	DVMS
Model Name				AM780KXVAGH1ET	AM800KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 2			AM220KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET AM220KXVAGH/ET	AM200KXVAGH/ET
Daa Caal	*		α # \/ II-		
Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50
Mode	LIB		-	HEAT PUMP	HEAT PUMP
Performance	HP	C !! (D ! !)	HP	78	80
	Capacity	Cooling (Rated)	kW	218.4	224.0
		Heating (Rated)	kW	207.6	224.0
		Heating (Max)	kW	245.7	252.0
	mber of connectable indoor units		EA	64	64
Total capacity	of the connected Indoor Units	Min.	kW	109.2	112.0
		Max.	kW	283.9	291.2
Power	Power Input (Ducted)	Cooling (Rated)	kW	63.75	64.92
		Heating (Rated)	kW	45.80	48.68
		Heating (Max)	kW	59.36	58.32
	PowerInput (Non-Ducted)	Cooling (Rated)	kW	74.94	73.44
		Heating (Rated)	kW	53.76	55.32
		Heating (Max)	kW	69.71	66.32
	Current Input (Ducted)	Cooling (Rated)	A	102.20	104.00
	Current input (Ducteu)	Heating (Rated)	A	73.50	78.00
		Heating (Max)	A	95.30	93.60
	Current Input (Non-Ducted)	Cooling (Rated)	A	120.20	117.60
		Heating (Rated)	Α	86.20	88.80
		Heating (Max)	Α	111.90	106.40
	Current	Minimum Ssc	MVA	31.1	32.4
		MCA	Α	158.8	168.0
		MFA	Α	175	200
Efficiency	EER (Ducted)	Cooling (Rated)	W/W	3.43	3.45
	COP (Ducted)	Heating (Rated)	W/W	4.53	4.60
		Heating (Max)	W/W	4.14	4.32
	EER (Non-Ducted)	Cooling (Rated)	W/W	2.91	3.05
	COP (Non-Ducted)	Heating (Rated)	W/W	3.86	4.05
		Heating (Max)	W/W	3.52	3.80
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
casing	Materiat	Base	-	EGI Steel Plate	EGI Steel Plate
Heat	Туре	Dase	-	Fin & Tube	Fin & Tube
Exchanger	Material	Fin	-	Al	Al
Excilatiget	Material	Tube	-	Cu	At
	Fig. To a character	Tube	-		
<u> </u>	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Туре		-	Inverter Scroll x 7	Inverter Scroll x 8
	Output		kW x n	(6.39 x1) x1 + (6.39 x2) x3	(5.18 x 2) x 4
	Model Name		-	(DS-GB066FAV* x1) x1 + (DS-GB066FAV* x2) x3	(DS-GB052FAV* x 2) x 4
	Oil	Туре	-	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 2) x 4
-an	Туре		-	Propeller	Propeller
	Discharge direction		-	Тор	Тор
	Quantity			7	8
	Air Flow Rate		m³/min	220 x1 + 290 x 3	290 x 4
			l/s	3,667 x 1 + 4,833 x 3	4,833 x 4
	External Static Pressure	Max.	mmAq	8	8
		1.0.11	Pa	78.45	78.45
Fan Motor	Туре		-	BLDC Motor	BLDC Motor
an i-lotoi	Output			(830 x 1) x 1 + (620 x 2) x 3	
	Output		Wxn	(85U X I) X I + (62U X 2) X 5	(620 x 2) x 4

Туре				DVMS	DVM S
Model Name				AM780KXVAGH1ET	AM800KXVAGH1ET
	Outdoor unit module 1			AM120JXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 2	Outdoor unit module 2			AM200KXVAGH/ET
	Outdoor unit module 3			AM220KXVAGH/ET AM220KXVAGH/ET	AM200KXVAGH/ET
	Outdoor unit module 4			AM220KXVAGH/ET	AM200KXVAGH/ET
Piping	Liquid Pipe		Type	Braze connection	Braze connection
Connections	4		Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection
	'		Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)
	High pressure Gas Pipe(HR Only)	Type	-	-
			Φ, mm (inch)	-	-
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90
	Total piping length (System)	Max.	m	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110
	Level difference (IDU in highest position)	Max.	m	110	110
	Level difference (IDU-IDU)	Max.	m	50	50
Wiring	Transmission Cable	Min.	mm ²	0.75	0.75
connections		Remark	-	F1, F2	F1, F2
	Power supply intake	Power supply intake		Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	6.5 x 1 + 8.4 x 3	8.4 x 4
			tCO₂e	66.19	70.16
Sound	Sound Pressure	Cooling	dB(A)	70	71
		Heating	dB(A)	72	73
	Sound Power		dB(A)	94	93
External	Net Weight		kg	210.0 x1 + 290.0 x3	282.0 x 4
Dimension	Shipping Weight		kg	217.0 x 1 + 310.0 x 3	302.0 x 4
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 4
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 3	(1,363 x 1,887 x 832) x 4
Operating	Cooling		°C	-5 ~ 48	-5 ~ 48
Temp. Range	Heating		°C	-25 ~ 24	-25 ~ 24



- Specification may be subject to change without prior notice.
- Specification comply with EN14825 and Eurovent test condition
- 1) Performances are based on the following test conditions.
 - Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
 - Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - Refer to EUROVENT website(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
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 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 5) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power: 1pW
 - Measured according to ISO 3741
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

 (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be
 - PDM kit: Pressure Drop Modulation kit
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

3. Electric Characteristics

Standard

Cap	oacity	Madal	Pow	ver Supply	Voltage	e Range		Current [A]		Current [A] Oucted)	Currer	nt [A]	ODU F	an Motor
HP	kW	Model	Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080JXVAGH/ET	50	380-415	342	456	8.0	8.7	9.8	10.5	18.0	25	0.83	2.4
10	28.0	AM100JXVAGH/ET	50	380-415	342	456	11.0	11.4	15.3	14.4	21.1	32	0.83	2.4
12	33.6	AM120JXVAGH/ET	50	380-415	342	456	13.1	13.7	17.3	16.2	25.0	32	0.83	2.4
14	39.2	AM140KXVAGH/ET	50	380-415	342	456	17.5	17.4	22.0	20.3	25.0	32	1.24	3.8
16	44.8	AM160KXVAGH/ET	50	380-415	342	456	18.7	19.4	22.5	24.5	32.0	40	1.24	3.8
18	50.4	AM180KXVAGH/ET	50	380-415	342	456	21.9	20.7	22.6	24.5	39.2	50	1.24	3.8
20	56.0	AM200KXVAGH/ET	50	380-415	342	456	26.0	23.4	29.4	26.6	42.0	63	1.24	3.8
22	61.6	AM220KXVAGH/ET	50	380-415	342	456	29.7	27.2	34.3	31.9	44.6	63	1.24	3.8
24	67.2	AM240KXVAGH/ET	50	380-415	342	456	33.7	28.6	32.2	32.3	55.0	63	1.24	3.8
26	72.8	AM260KXVAGH/ET	50	380-415	342	456	36.0	31.7	37.3	36.7	60.0	75	1.24	3.8
28	78.4	AM280KXVAGH1ET	50	380-415	342	456	31.8	33.1	39.8	40.7	57.0	75	2.07	6.2
30	84.0	AM300KXVAGH1ET	50	380-415	342	456	35.0	34.4	39.9	40.7	64.2	75	2.07	6.2
32	89.6	AM320KXVAGH1ET	50	380-415	342	456	39.1	37.1	46.7	42.8	67.0	75	2.07	6.2
34	95.2	AM340KXVAGH1ET	50	380-415	342	456	42.8	40.9	51.6	48.1	69.6	80	2.07	6.2
36	100.8	AM360KXVAGH1ET	50	380-415	342	456	47.2	44.6	56.3	52.2	69.6	80	2.48	7.6
38	106.4	AM380KXVAGH1ET	50	380-415	342	456	48.4	46.6	56.8	56.4	76.6	90	2.48	7.6
40	112.0	AM400KXVAGH1ET	50	380-415	342	456	51.6	47.9	56.9	56.4	83.8	100	2.48	7.6
42	117.6	AM420KXVAGH1ET	50	380-415	342	456	55.7	50.6	63.7	58.5	86.6	100	2.48	7.6
44	123.2	AM440KXVAGH1ET	50	380-415	342	456	59.4	54.4	68.6	63.8	89.2	100	2.48	7.6
46	128.8	AM460KXVAGH1ET	50	380-415	342	456	55.9	54.6	68.9	64.3	94.6	125	2.9	8.6
48	134.4	AM480KXVAGH1ET	50	380-415	342	456	60.3	58.3	73.6	68.4	94.6	125	3.31	10.0
50	140.0	AM500KXVAGH1ET	50	380-415	342	456	61.5	60.3	74.1	72.6	101.6	125	3.31	10.0
52	145.6	AM520KXVAGH1ET	50	380-415	342	456	64.7	61.6	74.2	72.6	108.8	125	3.31	10.0
54	151.2	AM540KXVAGH1ET	50	380-415	342	456	68.8	64.3	81.0	74.7	111.6	125	3.31	10.0
56	156.8	AM560KXVAGH1ET	50	380-415	342	456	72.5	68.1	85.9	80.0	114.2	150	3.31	10.0
58	162.4	AM580KXVAGH1ET	50	380-415	342	456	76.9	71.8	90.6	84.1	114.2	150	3.72	11.4
60	168.0	AM600KXVAGH1ET	50	380-415	342	456	78.1	73.8	91.1	88.3	121.2	150	3.72	11.4
62	173.6	AM620KXVAGH1ET	50	380-415	342	456	81.3	75.1	91.2	88.3	128.4	150	3.72	11.4
64	179.2	AM640KXVAGH1ET	50	380-415	342	456	85.4	77.8	98.0	90.4	131.2	150	3.72	11.4
66	184.8	AM660KXVAGH1ET	50	380-415	342	456	89.1	81.6	102.9	95.7	133.8	150	3.72	11.4
68	190.4	AM680KXVAGH1ET	50	380-415	342	456	85.6	81.8	103.2	96.2	139.2	175	4.14	12.4
70	196.0	AM700KXVAGH1ET	50	380-415	342	456	90.0	85.5	107.9	100.3	139.2	175	4.55	13.8
72	201.6	AM720KXVAGH1ET	50	380-415	342	456	91.2	87.5	108.4	104.5	146.2	175	4.55	13.8
74	207.2	AM740KXVAGH1ET	50	380-415	342	456	94.4	88.8	108.5	104.5	153.4	175	4.55	13.8
76	212.8	AM760KXVAGH1ET	50	380-415	342	456	98.5	91.5	115.3	106.6	156.2	175	4.55	13.8
78	218.4	AM780KXVAGH1ET	50	380-415	342	456	102.2	95.3	120.2	111.9	158.8	175	4.55	13.8
80	224.0	AM800KXVAGH1ET	50	380-415	342	456	104.0	93.6	117.6	106.4	168.0	200	4.96	15.2



MCA: Minimum circuit amperesMFA: Maximum fuse amperes

• FLA : Full load amperes

7. Sound Data

Summary

Standard

Capacity		Model	Sound Pres	Sound Pressure dB(A)		
HP kW		Model	Cooling	Cooling Heating		
8	22.4	AM080JXVAGH/ET	57	59	77	
10	28	AM100JXVAGH/ET	58	60	79	
12	33.6	AM120JXVAGH/ET	62	64	81	
14	39.2	AM140KXVAGH/ET	61	63	81	
16	44.8	AM160KXVAGH/ET	63	67	83	
18	50.4	AM180KXVAGH/ET	64	67	84	
20	56	AM200KXVAGH/ET	65	67	87	
22	61.6	AM220KXVAGH/ET	65	67	89	
24	67.2	AM240KXVAGH/ET	66	69	90	
26	72.8	AM260KXVAGH/ET	66	69	90	
28	78.4	AM280KXVAGH1ET	66	69	85	
30	84	AM300KXVAGH1ET	66	69	86	
32	89.6	AM320KXVAGH1ET	67	69	88	
34	95.2	AM340KXVAGH1ET	67	69	90	
36	100.8	AM360KXVAGH1ET	66	68	90	
38	106.4	AM380KXVAGH1ET	67	70	90	
40	112	AM400KXVAGH1ET	68	70	90	
42	117.6	AM420KXVAGH1ET	68	70	91	
44	123.2	AM440KXVAGH1ET	68	70	92	
46	128.8	AM460KXVAGH1ET	68	70	90	
48	134.4	AM480KXVAGH1ET	68	70	90	
50	140	AM500KXVAGH1ET	68	71	90	
52	145.6	AM520KXVAGH1ET	69	71	91	
54	151.2	AM540KXVAGH1ET	69	71	92	
56	156.8	AM560KXVAGH1ET	69	71	92	
58	162.4	AM580KXVAGH1ET	69	71	92	
60	168	AM600KXVAGH1ET	69	72	93	
62	173.6	AM620KXVAGH1ET	69	72	93	
64	179.2	AM640KXVAGH1ET	70	72	93	
66	184.8	AM660KXVAGH1ET	70	72	94	
68	190.4	AM680KXVAGH1ET	70	72	93	
70	196	AM700KXVAGH1ET	70	72	93	
72	201.6	AM720KXVAGH1ET	70	72	93	
74	207.2	AM740KXVAGH1ET	70	72	93	
76	212.8	AM760KXVAGH1ET	70	72	93	
78	218.4	AM780KXVAGH1ET	70	72	94	
80	224	AM800KXVAGH1ET	71	73	93	

NOTE

- Sound Pressure Level
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μ Pa
- Sound Power Level
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

7. Sound Data

Sound Pressure level

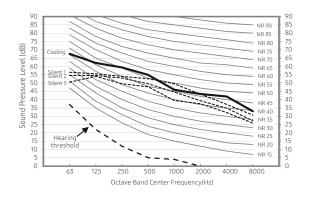
Unit: dB(A)

Microphone	1m
1.5m	Front
<u> </u>	

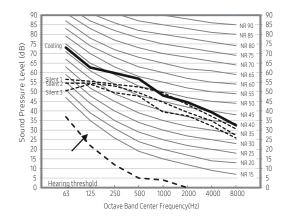
Model	Cooling	Silent 1	Silent 2	Silent 3
AM080JXVHGH/ET	57	54	52	49
AM100JXVHGH/ET	58	55	52	49
AM120JXVHGH/ET	62	55	52	49
AM140JXVHGH/ET	61	57	55	49

• NR Curve

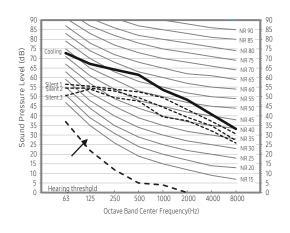
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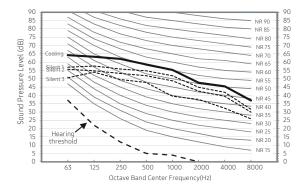
2) AM100JXVHGH/ET



3) AM120JXVHGH/ET



4) AM140JXVHGH/ET



NOTE

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 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Sound Pressure level

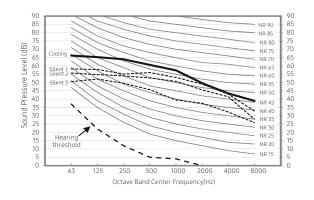
Unit: dB(A)

Microphone	1m
1.311	

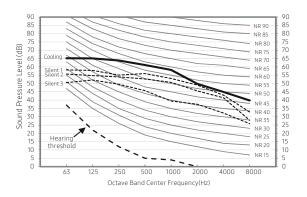
Model	Cooling	Silent1	Silent 2	Silent 3
AM160JXVHGH/ET	62	59	56	49
AM180JXVHGH/ET	63	59	56	49
AM200JXVHGH/ET	64	59	56	49
AM220JXVHGH/ET	65	59	56	49

• NR Curve

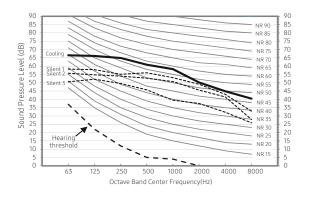
1) AM160JXVHGH/ET



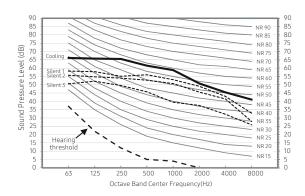
2) AM180JXVHGH/ET



3) AM200JXVHGH/ET



4) AM220JXVHGH/ET



NOTE

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 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

Sound Pressure level

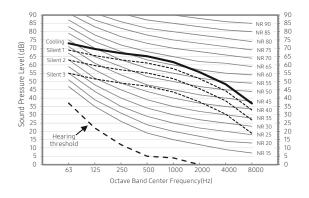
Unit: dB(A)

Microphone	1m
1.5m	Front
<u> </u>	

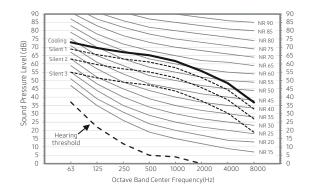
Model	Cooling	Silent1	Silent 2	Silent 3
AM240KXVGGH/ET	69	63	57	49
AM260KXVGGH/ET	69	63	57	49

• NR Curve

1) AM240KXVGGH/ET



2) AM260KXVGGH/ET



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

Sound Pressure level

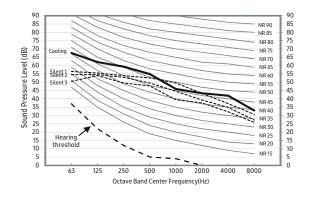
Unit: dB(A)

Microphone 1.5m	1m Front

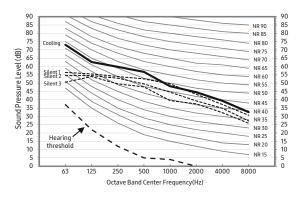
Model	Cooling	Silent1	Silent 2	Silent 3
AM080JXVAGH/ET	57	54	52	49
AM100JXVAGH/ET	58	55	52	49
AM120JXVAGH/ET	62	55	52	49
AM140KXVAGH/ET	61	57	55	49

• NR Curve

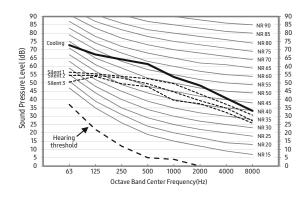
1) AM080JXVAGH/ET



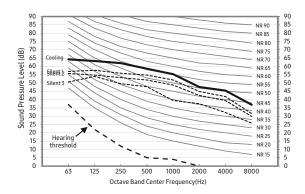
2) AM100JXVAGH/ET



3) AM120JXVAGH/ET



4) AM140KXVAGH/ET



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 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

Sound Pressure level

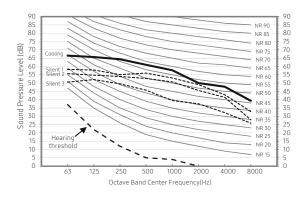
Unit: dB(A)

Microphone	1m
1.5m	Front
<u> </u>	

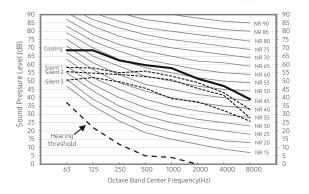
Model	Cooling	Silent1	Silent 2	Silent 3
AM160KXVAGH/ET	63	59	56	49
AM180KXVAGH/ET	64	59	56	49
AM200KXVAGH/ET	65	59	56	49
AM220KXVAGH/ET	65	59	56	49

• NR Curve

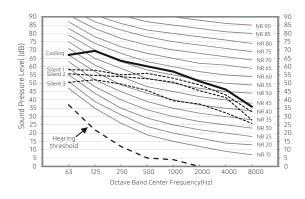
1) AM160KXVAGH/ET



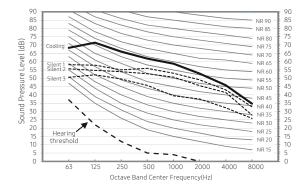
2) AM180KXVAGH/ET



3) AM200KXVAGH/ET



4) AM220KXVAGH/ET



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

Sound Pressure level

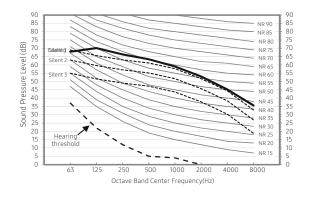
Unit: dB(A)

Microphone	1m
1.5m	Front
<u> </u>	

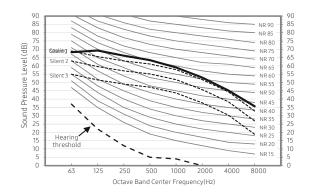
Model	Cooling	Silent1	Silent 2	Silent 3
AM240KXVAGH/ET	66	63	57	49
AM260KXVAGH/ET	66	63	57	49

• NR Curve

1) AM240KXVAGH/ET



2) AM260KXVAGH/ET



■ NOTE

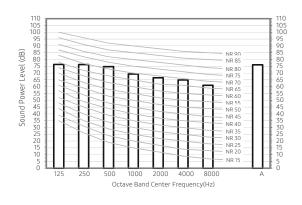
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted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

Sound Power level

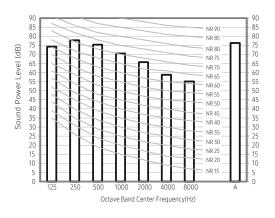
Unit: dB(A)

Model	Power
AM080JXVHGH/ET	77
AM100JXVHGH/ET	78
AM120JXVHGH/ET	83
AM140JXVHGH/ET	81

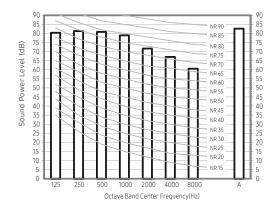
1) AM080JXVHGH/ET



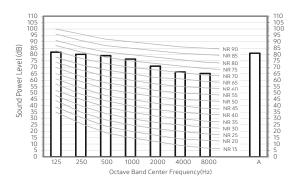
2) AM100JXVHGH/ET



3) AM120JXVHGH/ET



4) AM140JXVHGH/ET



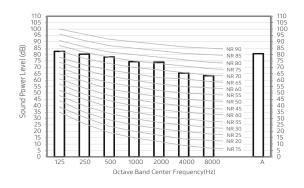
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

Sound Power level

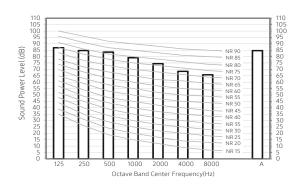
Unit: dB(A)

Model	Power
AM160JXVHGH/ET	82
AM180JXVHGH/ET	85
AM200JXVHGH/ET	86
AM220JXVHGH/ET	88

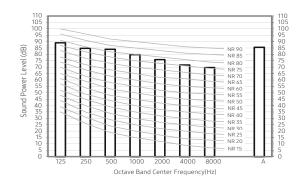
1) AM160JXVHGH/ET



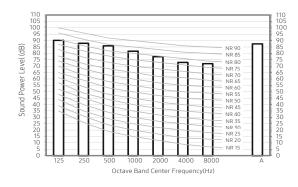
2) AM180JXVHGH/ET



3) AM200JXVHGH/ET



4) AM220JXVHGH/ET



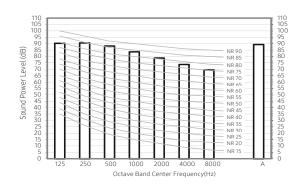
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

Sound Power level

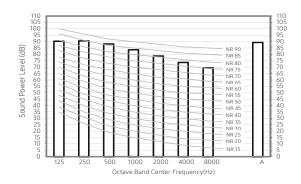
Unit: dB(A)

Model	Power
AM240KXVGGH/ET	90
AM260KXVGGH/ET	90

1) AM240KXVGGH/ET



2) AM260KXVGGH/ET



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

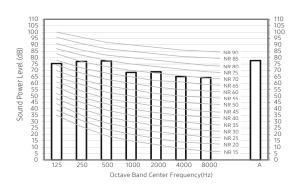
Sound Power level

Unit: dB(A)

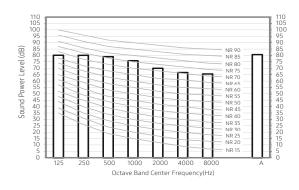
Model	Power
AM080JXVAGH/ET	77
AM100JXVAGH/ET	79
AM120JXVAGH/ET	81
AM140KXVAGH/ET	81

1) AM080JXVAGH/ET

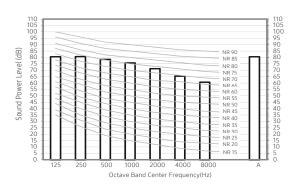
2) AM100JXVAGH/ET



3) AM120JXVAGH/ET



4) AM140KXVAGH/ET



■ NOTE

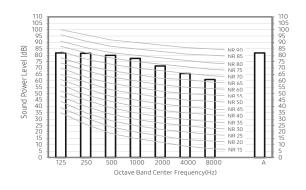
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

Sound Power level

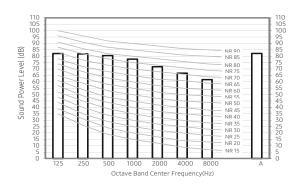
Unit: dB(A)

Model	Power
AM160KXVAGH/ET	83
AM180KXVAGH/ET	84
AM200KXVAGH/ET	87
AM220KXVAGH/ET	89

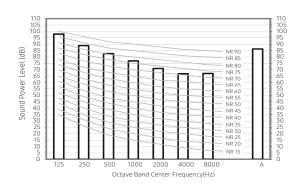
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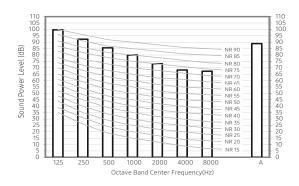
2) AM180KXVAGH/ET



3) AM200KXVAGH/ET



4) AM220KXVAGH/ET



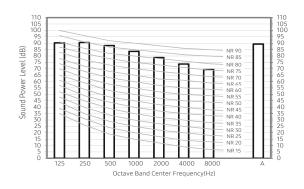
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

Sound Power level

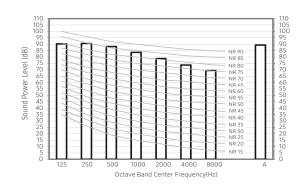
Unit: dB(A)

Model	Power
AM240KXVAGH/ET	90
AM260KXVAGH/ET	90

1) AM240KXVAGH/ET



2) AM260KXVAGH/ET

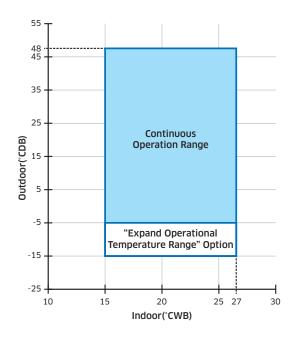


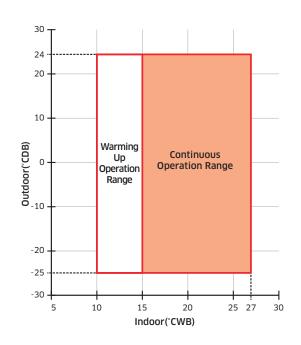
■ NOTE

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

8. Operation Range

Cooling Heating





- (1) The operating range is shown in these figures
- (2) The assumed installation condtions are as follows
 - Outdoor units and indoor units combination
 - The Pipe length(including elbow) is 5m
 - The Level difference is 0m
- (3) In the low temperature expansion option application, the cooling operating is possible under expand operational range only for HR system
- (4) In case of 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 : $A = B \times C$

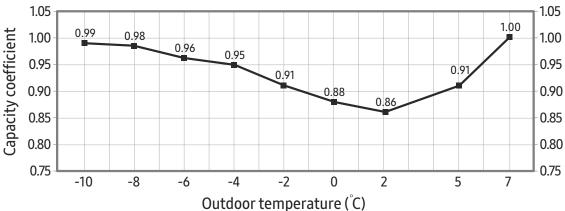
Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

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





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

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

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

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

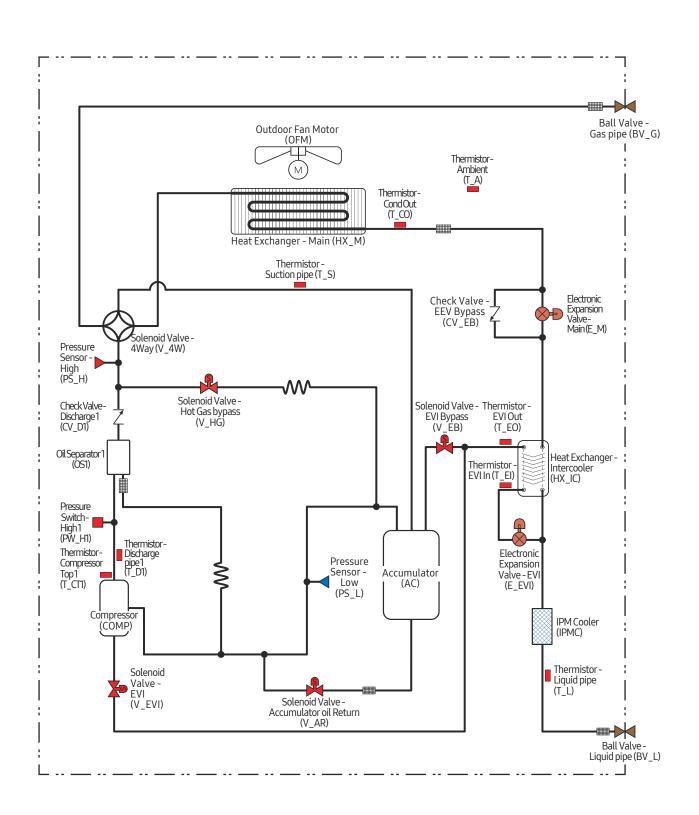
It is actually the frost occurrence section from 0 °C or less.

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

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

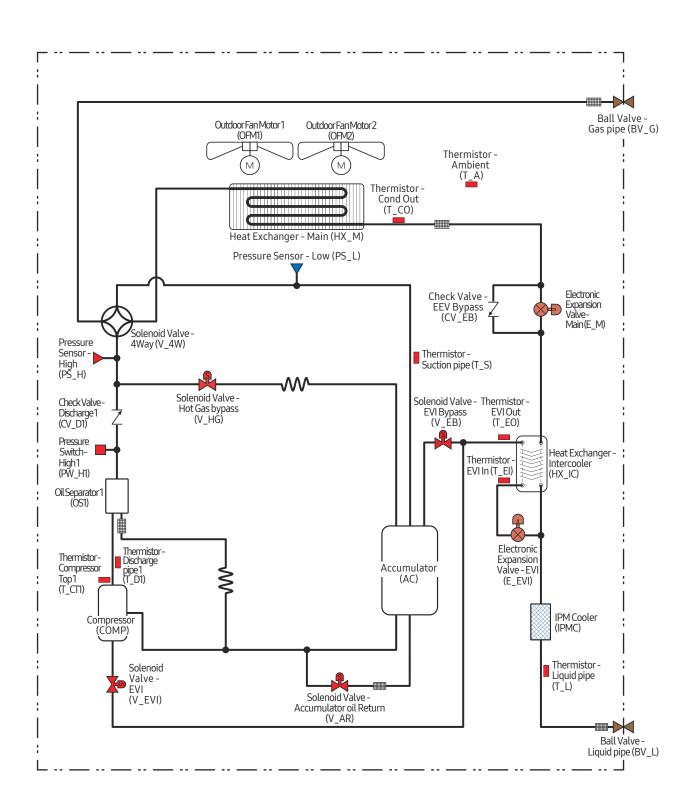
Outdoor unit

(1) AM080~120JXVHGH, AM080~120JXVAGH



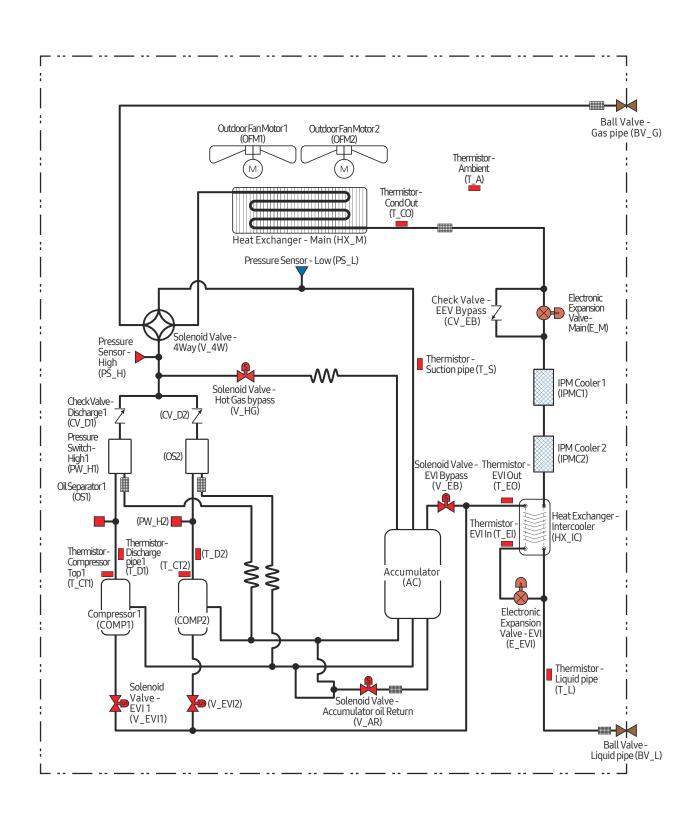
Outdoor unit

(5) AM140~180KXVAGH



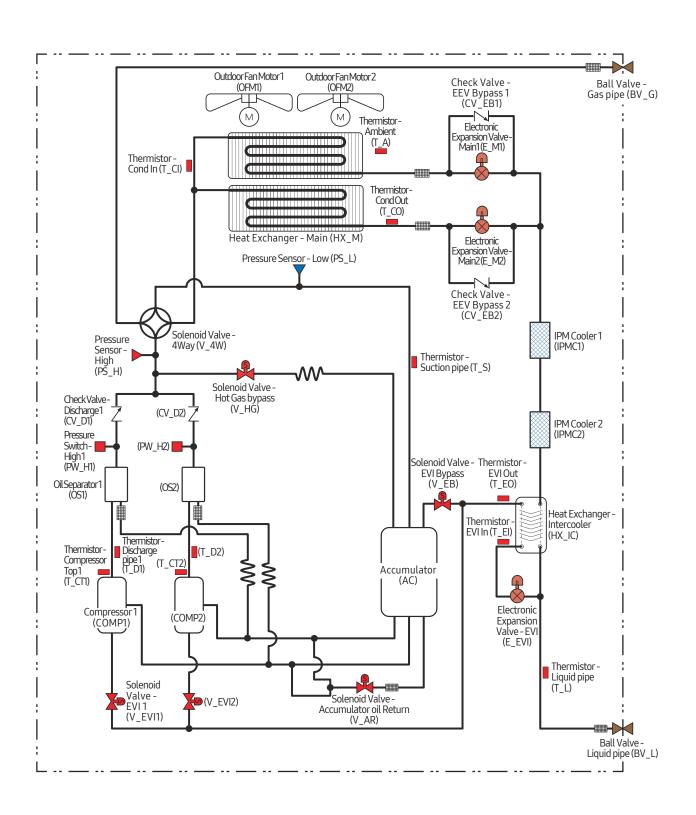
Outdoor unit

(6) AM200~220KXVAGH



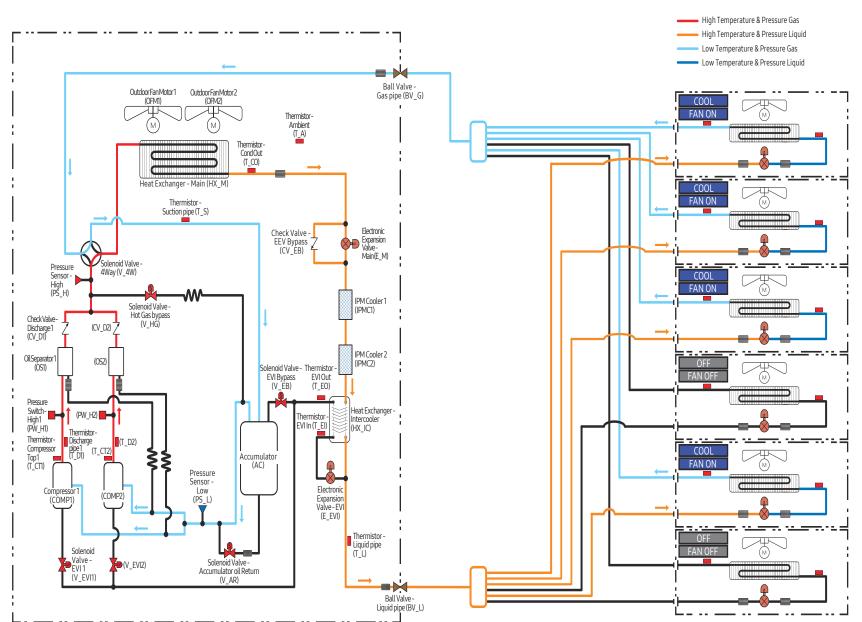
Outdoor unit

(7) AM240~260KXVAGH



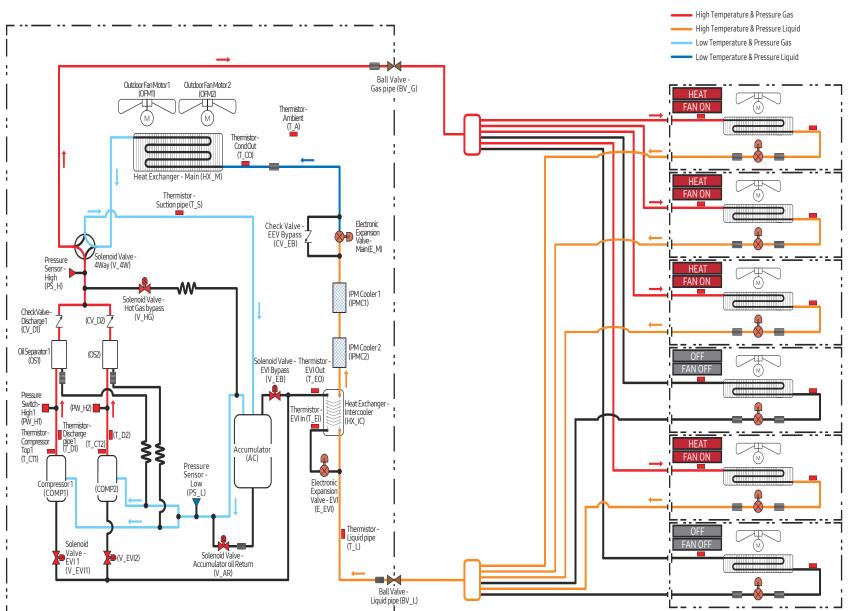
Cooling System

20HP with indoor units



Heating System

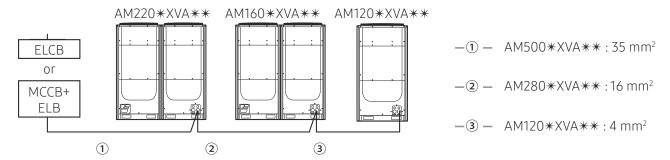
20HP with indoor units



Electrical wiring work

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

Ex.) AM500*XVA**





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

[Ssc (*2)]

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

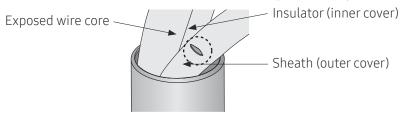
Model	Ssc [MVA]
AM080JXVAGH/ET	3.1
AM100JXVAGH/ET	4.5
AM120JXVAGH/ET	5.3
AM140KXVAGH/ET	5.4
AM160KXVAGH/ET	7.2
AM180KXVAGH/ET	8.8
AM200KXVAGH/ET	8.1
AM220KXVAGH/ET	8.6
AM240KXVAGH/ET	12.5
AM260KXVAGH/ET	12.2
AM100MXVDGH/ET	4.5
AM120MXVDGH/ET	5.3
AM140MXVDGH/ET	5.4
AM160MXVDGH/ET	7.2
AM180MXVDGH/ET	8.8

Electrical wiring work



Caution for electrical work

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

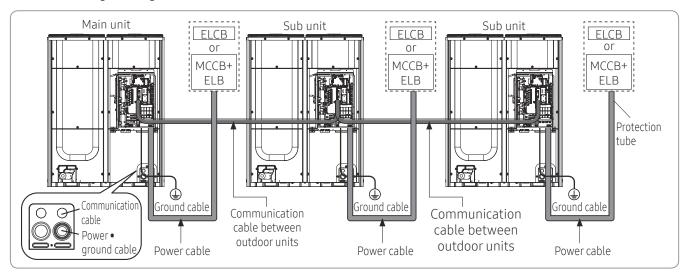


<The example of exposed core wire>

Electrical wiring work

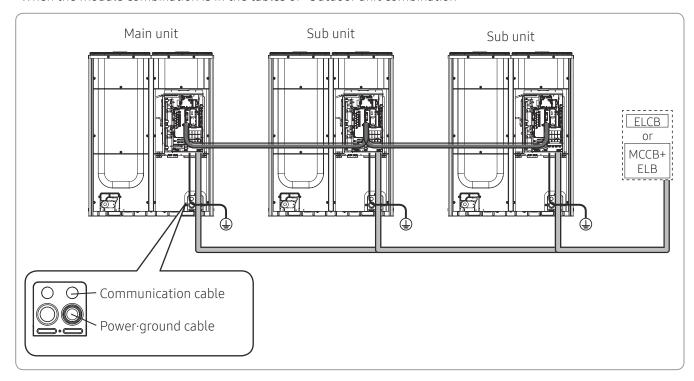
Power and communication cable configuration

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



Electrical wiring work

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



Communication cable between outdoor units

Power cable

Protection tube

Power/ground cable

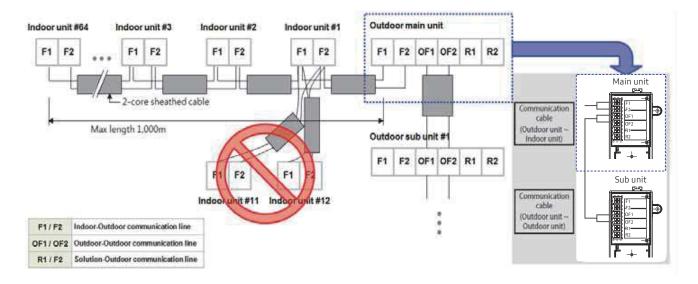
Specification of the protection tube

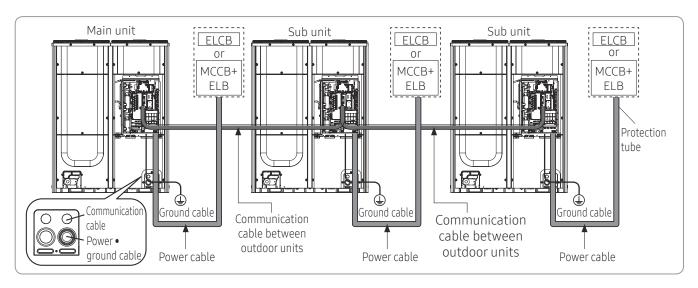
Name Temper grade		Applicable conditions
Flexible PVC conduit	PVC	When the protection tube is installed indoor and not exposed to outside, because it is embedded in concrete structure
Class 1 flexible conduit	Galvanized steel sheet	When the protection tube is installed indoor but exposed to outside so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

Electrical wiring work

Specification of Cable and Connecting method

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



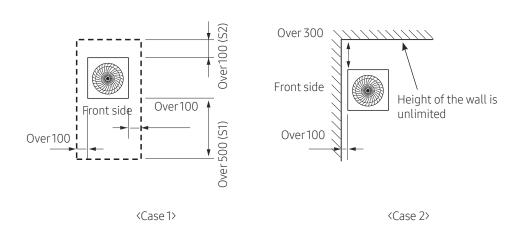


Space requirement for installation

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

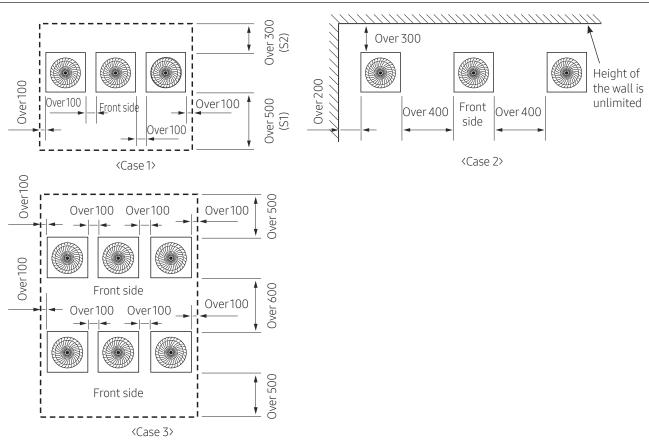
Single installation

(Unit: mm)

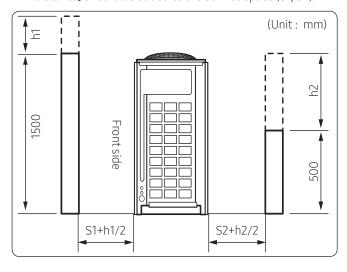


Space requirement for installation

Module installation

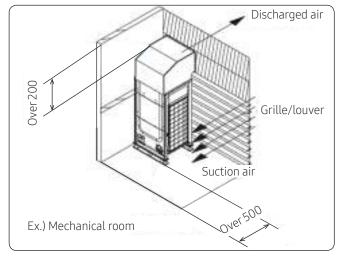


- * For (Case 1) or (Case 3)
 - Height of the wall on the front side should not be higher than 1500mm.
 - Height of the wall on the air inlet side should not be higher than 500mm.
 - Height of the wall on the side is not limited.
 - If the height of the wall exceeds by certain value (h1, h2), additional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



★ At Machinery Room

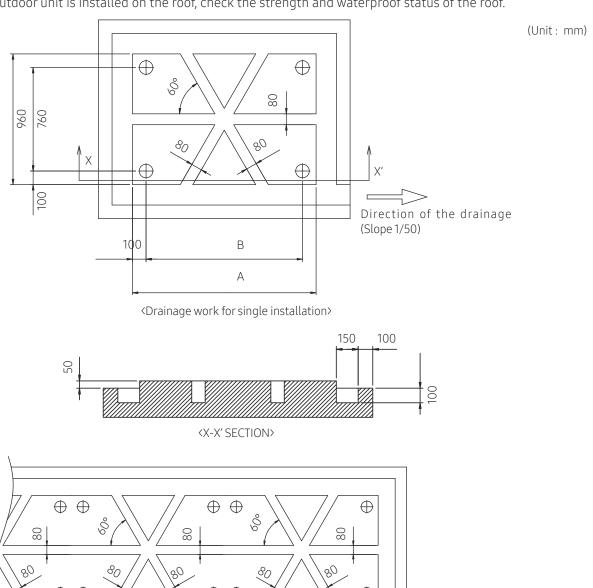
- Make sure to install both discharge duct and suction grille / louver
- Static pressure of the discharge duct should be within the standard specification (78.45Pa) when installing the duct.
- Secure enough cross-sectional area on grille surface for easy air intake in case of machinery room installation.



Base construction and installation of the outdoor unit

Examples of draining work

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



Direction of the drainage

(Slope 1/50)

<Drainage work for module installation>

В

200

200

В

Base construction and installation of the outdoor unit

(Unit:mm)

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



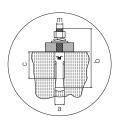
Cautions regarding on connecting the anchor bolt

▶ Tighten the rubber washer to prevent the bolt connection part of the outdoor unit from corroding.



► Anchor specification

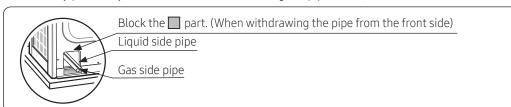
Size	Diameter of drill bit (a)	Anchor length (b)	Sleeve length (c)	Insert depth	Fastening torque
Ø 10	14 mm	75 mm	40 mm	50 mm	30 N·m



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

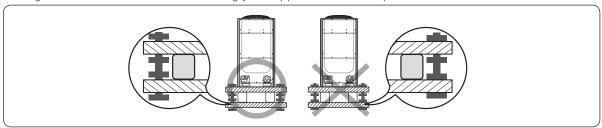
Cautions regarding on connecting the pipe

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



Cautions regarding on anti-vibration frame installation

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

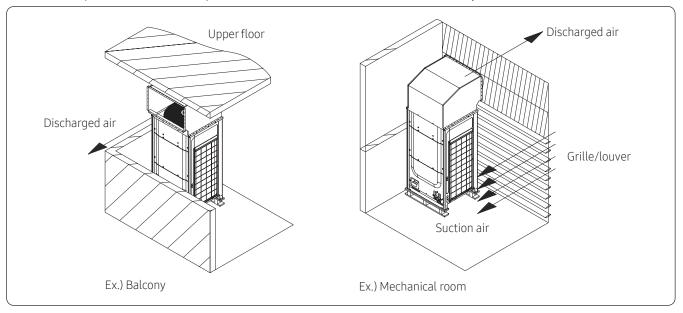


▶ After installing the anti-vibration frame, untighten the fixing part on the top and bottom part of the frame.

Wind/snow prevention duct

Installing the outdoor unit around the obstacles

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



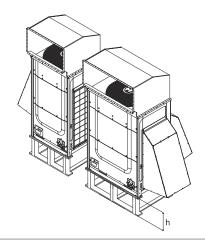
Installing the outdoor unit in cold region

- ▶ 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.



Wind/snow prevention duct

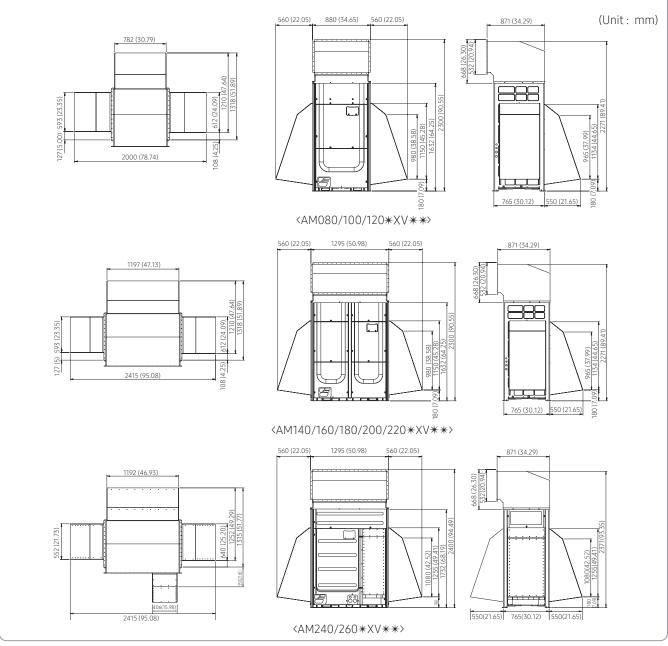
Installing the outdoor unit in windy region

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



Cautions regarding on installing the frame and selecting the base ground

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



Refrigerant pipe installation

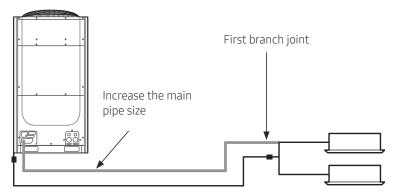
Refrigerant pipe work

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

Tool	Installation pr	ocess/purpose	Compatibility with conventional tool
Pipe cutter		Pipe cutting	Compatible
Flaring tool		Pipe flaring	Compatible
Refrigerant machine oil	Refrigerant pipe installation	Apply refrigerant oil on flared part	Exclusive ether oil, ester oil, alkali benzene oil or synthetic oil
Torque wrench		Connect flare nut with pipe	
Pipe bender		Pipe bending	
Nitrogen gas	trogen gas Air tightness test	Prevent oxidation within the pipe	Compatible
Welder		Pipe welding	
Manifold gage	Air tightness test ~ additional		Need exclusive one to prevent mixture of R-22 refrigerant oil use and also the measurement is not available due to high pressure
Refrigerant charging hose			Need exclusive one since there is risk of refrigerant leakage or inflow of impurities
Vacuum pump	Pipe (drying	Compatible (Use products which contain the check valve to prevent the oil from flowing backward into the outdoor unit.) Use the one that can be vacuumed up to -100.7kpa(5Torr).
Scale for refrigerant charging	Refrigerar	nt charging	Compatible
Gas leak detector	Gas leak test		Need exclusive one (Ones used for R-134a is compatible)
Flare nut	Must use the flare nut equipped with the product. Refrigerant leakage may occur when the conventional flare nut for R-22 is used.		

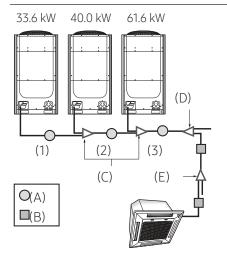
Refrigerant pipe installation

Selecting refrigerant pipe



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

H/P



Ex.) 135.2 kW

Canacity (I/M)	No	Pipe size (mm)		
Capacity (kW)	No.	Liquid pipe	Gas pipe	
33.6 kW	(1)	Ø12.70	Ø 28.58	
73.6 kW	(2)	Ø 19.05	Ø 34.92	
135.2 kW	(3)	Ø 19.05	Ø 41.28	

Refrigerant pipe installation

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

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

Outdoor unit capacity (kW)	*Maximum pipe l	ength within 90m	*Maximum pipe length over 90m	
(Cooling)	Liquid pipe (mm)	gas pipe (mm)	Liquid pipe (mm)	gas pipe (mm)
22.4 kW	Ø 0.53	Ø 19.05	Ø 12 70	Ø 22.22
22.5 kW ~ 28.1 kW	Ø 9.52	Ø 22.22	Ø 12.70	Ø 25.40 note1)
28.2 kW ~ 33.6 kW				Ø 20 E0
33.7 kW ~ 40.0 kW	Ø 12.70		Ø 15.88	Ø 28.58
40.1 kW ~ 45.0 kW		Ø 20 E0		Ø 31.75 ^{note2)}
45.1 kW ~ 50.4 kW		Ø 28.58	Ø 19.05	
50.5 kW ~ 56.0 kW	Ø 15.88			
56.1 kW ~ 63.3 kW	Ø 13.00			
63.4 kW ~ 70.3 kW		Ø 34.92		Ø 38.10 ^{note3)}
70.4 kW ~ 98.4 kW		Ø 34.92		J8.10 ****
98.5 kW ~ 135.2 kW	Ø 19.05	Ø 41.28	Ø 22.22	Ø 41.28
135.3 kW ~ 169.0 kW		W 41.20		Ø 53.98
169.1 kW ~ 252.0 kW	Ø 22.22	Ø 53.98	Ø 25.40 note1)	סא.כנ ש

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

 $^{^{}Note1)}$ If Ø 25.40 pipe is not available on site, use Ø 28.58 pipe.

 $^{^{\}text{Note2})}$ If Ø 31.75 pipe is not available on site, use Ø 34.92 pipe.

 $^{^{\}text{Note3})}$ If Ø 38.10 pipe is not available on site, use Ø 41.28 pipe

Refrigerant pipe installation

Size of the pipe between branch joints (B)

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

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

Indoor unit canacity (IAM)	Branch pipe len	gth within 45m	Branch pipe length between 45~90m		
Indoor unit capacity (kW)	Liquid pipe (mm)	Gas pipe (mm)	Liquid pipe (mm)	Gas pipe (mm)	
15.0 kW and below		Ø 15.88		Ø 19.05	
15.1 kW ~ 22.4 kW	Ø 9.52	Ø 19.05	Ø 12.70	Ø 22.22	
22.5 kW ~ 28.1 kW		Ø 22.22		Ø 25.40 ^{note1)}	
28.2 kW ~ 40.0 kW	Ø 12.70		Ø 15.88	Ø 28.58	
40.1 kW ~ 45.0 kW	0 12.70	Ø 28.58	13.86	Ø 31.75 ^{note2)}	
45.1 kW ~ 63.3 kW	Ø 15.88		Ø 19.05	ט 31.75	
63.4 kW ~ 70.3 kW	1 0.00	0.74.02	- Ø 19.05	Ø 38.10 ^{note3)}	
70.4 kW ~ 98.4 kW	Ø 34.92	W 34.92		Ø 36.10	
98.5 kW ~ 135.2 kW	Ø 19.05	Ø 41 20	Ø 22.22	Ø 41.28	
135.3 kW ~ 169.0 kW		Ø 41.28		Ø 53.00	
Over169.0 kW	Ø 22.22	Ø 53.98	Ø 25.40 ^{note1)}	Ø 53.98	

 $^{^{\}text{Note1)}}$ If Ø 25.40 pipe is not available on site, use Ø 28.58 pipe.

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

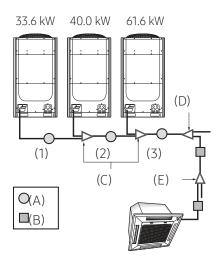
Make a selection according to outdoor unit capacity.

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

 $^{^{\}text{Note2})}$ If Ø 31.75 pipe is not available on site, use Ø 34.92 pipe.

 $^{^{\}text{Note3})}$ If Ø 38.10 pipe is not available on site, use Ø 41.28 pipe

Refrigerant pipe installation



Branch joint

► Branch joint between outdoor units (C)

Classification	Model name	Specification (kW)	
V in int for outdoor unit (C)	MXJ-TA3419M	135.2 kW and below	
Y-joint for outdoor unit (C)	MXJ-TA4122M	Over135.2 kW	

► First branch joint (D)

Make a selection according to outdoor unit capacity.

Classification	Outdoor unit capacity (kW)	Model name of the branch joint	
	40.0 kW and below	MXJ-YA2512M	
	40.1 kW ~ 45.0 kW	MXJ-YA2812M	
Violet (D)	45.1 kW ~ 67.2 kW	MXJ-YA2815M	
Y-joint (D)	67.3 kW ~ 95.2 kW	MXJ-YA3419M	
	95.3 kW ~ 135.2 kW	MXJ-YA4119M	
	Over135.2 kW	MXJ-YA4422M	

Refrigerant pipe installation

► Branch joint (E)

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

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

1) Y-joint

Classification	Model name	Specification (kW)	
	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 (E)	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	

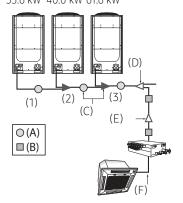
2) Distribution header

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

Refrigerant pipe installation

H/R

33.6 kW 40.0 kW 61.6 kW



Ex.) 135.2 kW

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

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

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

Outdoor unit capacity	*Maximum pipe length within 90m		*Maximum pipe length over 90m				
(kW) (Cooling)	Liquid pipe (mm)	Low pressure gas pipe (mm)	High pressure gas pipe (mm)	Liquid pipe (mm)	Low pressure gas pipe (mm)		
22.4 kW	Ø 9.52	Ø 19.05	Ø 15.88	Ø 12.70	Ø 19.05	Ø 15.88	
22.5 kW ~ 28.1 kW	W 9.5Z	Ø 22.22	Ø 10.05	Ø 12.70	Ø 22.22	Ø 10.0F	
28.2 kW ~ 33.6 kW			Ø 19.05			Ø 19.05	
33.7 kW ~ 40.0 kW	Ø 12.70			Ø 15.88			
40.1 kW ~ 45.0 kW]	Ø 20 F0	Ø 22.22		Ø 20 F0	Ø 22.22	
45.1 kW ~ 50.4 kW	Q15.00	Ø 28.58		Ø 28.58			
50.5 kW ~ 56.0 kW				Ø 19.05			
56.1 kW ~ 63.3 kW	Ø 15.88	Ø 15.88	α 20 F0	Ø 19.05		X 20 F0	
63.4 kW ~ 70.3 kW		Ø 34.92	Ø 7.4.02	Ø 28.58		Ø 34.92	Ø 28.58
70.4 kW ~ 98.4 kW					D 54.92		
98.5 kW ~ 135.2 kW	Ø 19.05	Q 41.20	5 (2.41.20)	0.74.02	Ø 22.22	Ø 41 20	0.74.02
135.3 kW ~ 169.0 kW		Ø 41.28	Ø 34.92 Ø 41.28		Ø 41.28	Ø 34.92	
169.1 kW ~ 252.0 kW	Ø 22.22	Ø 53.98	Ø 53.98	Ø 25.40 note1)	Ø 53.98	Ø 53.98	

^{*}Maximum pipe length: The pipe legth between an outdoor unit and the farthest indoor unit. Note1) If \emptyset 25.40 pipe is not available on site, use \emptyset 28.58 pipe.

^{*} For HR model, only increase the size of the liquid pipe If pipe length exceeds 90m

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

Refrigerant pipe installation

H/R

Size of the pipe between branch joints (B)

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

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

Outdoor unit canacity (I/W) (Cooling)		Pipe size (mm)						
Outdoor unit capacity (kW) (Cooling)	Liquid pipe	Low pressure gas pipe	High pressure gas pipe					
15.0 kW and below		Ø 15.88	Ø 15.88					
15.1 kW ~ 22.4 kW	Ø 9.52	Ø 19.05	D 13.00					
22.5 kW ~ 28.1 kW		Ø 22.22	Ø 19.05					
28.2 kW ~ 33.6 kW	Ø 12.70		W 19.05					
33.7 kW ~ 45.0 kW	W 12.70	Ø 28.58	Ø 22.22					
45.1 kW ~ 50.4 kW								
50.5 kW ~ 63.3 kW	Ø 15.88							
63.4 kW ~ 70.3 kW		0.74.02	Ø 28.58					
70.4 kW ~ 98.4 kW		Ø 34.92						
98.5 kW ~ 135.2 kW	Ø 19.05	Ø 41.28	Ø 7.4.02					
135.3 kW ~ 169.0 kW		W 41.28	Ø 34.92					
Over169.0 kW	Ø 22.22	Ø 53.98	Ø 41.28					

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

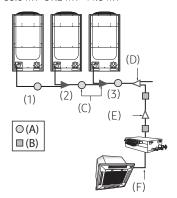
Make a selection according to outdoor unit capacity.

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

Refrigerant pipe installation

H/R

33.6 kW 39.2 kW 44.8 kW



Branch joint

► Branch joint between outdoor units (C)

Classification	Model name	Specification (kW)
Liquid/Low pressure Y-joint	MXJ-TA3419M	135.2 kW and below
(C)	MXJ-TA4122M	Over135.2 kW
High proceure V joint (C)	MXJ-TA3100M	135.2 kW and below
High pressure Y-joint (C)	MXJ-TA3800M	Over135.2 kW

► First branch joint (D)

Make a selection according to outdoor unit capacity.

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

► Branch joint (E)

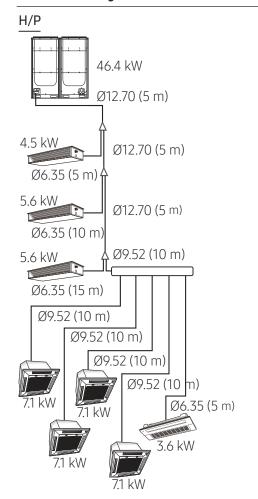
Select a branch joint according to the sum of indoor unit capacity which will be connected after the branch.

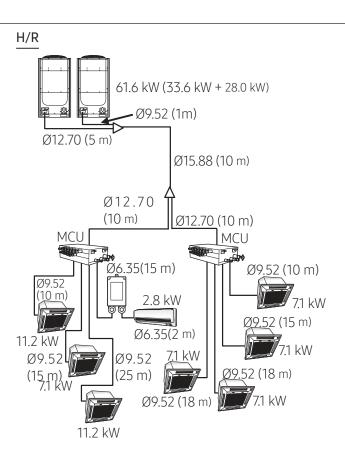
- * However, if the size of the pipe between branch joints (E) is bigger than the size of the pipe connected to the outdoor unit (D), apply the pipe size (D).
 - Y-joint

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

Refrigerant pipe installation

Additional refrigerant





Refrigerant pipe installation

Refrigerant pipe installation

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

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

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

Size of liquid pipe	Ø 6.35	Ø 9.52	Ø12.70	Ø15.88	Ø19.05	Ø 22.22	Ø 25.40	Ø 28.58
Additional amount (kg/m)	0.02	0.06	0.125	0.18	0.27	0.35	0.53	0.65

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

Refrigerant pipe installation

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

(Unit:kg)

Capacity(kW)																								500	1000
Model	1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.6	6	7.1	8.2	9	9.3	11.2	12.8	14	16	18	22	22.4	28	32	50		CMH
Slim1way cassette (JSF) (AMX X XFN1DEX X) (AMX X XJN1DEX X)			0 .25	0 .25		0 .25		0 .32		0 .32															
Interior1way cassette (AMXXXHN1DEXX)		0 .15	0.15																						
2way cassette (AM X X X FN2DE X X)								0 .31		0 .47															
4Way Casette S (AM X X X FN4DE X X)							0 .45	0 .45		0 .45		0 .45		0 .57	0 .69	0 .69									
360 Casette (AM X X X KN4DE X X)							0 .45	0 .45		0 .45		0 .45		0 .69	0 .69	0 .69									
Floor Standing Unit (AMXXXXNFDEXX)						0 .22		0 .32		0 .32															
ERV plus (AM X X XF NKDE X X)																								0.11	0.36
4way cassette S (600 x 600) (AMX X XFNNDEX X)	0 .29		0.29	0.29		0.29																			
DuctS(AMXXXHNMPKX/X)						0.22				0.22		0.31		0.38	0.38	0.38									
Duct S (AMX X X HNMPK X 9 X)					0.31	0 .31	0 .38	0.38		0 .38															<u> </u>
Duct S (AMX X XHNHPKX/X)		0.47	0.47	0.47		0.01	0.75	0.75		0 45		0.40			0.38										
Slim duct (AMXXXFNLDEXX) Slim duct (with drain pump)		0 .17	0.17	0.1/		0.26	0 .35			0 .45		0 .42			0 .62										
(AMXXXKNLDEXX) MSPduct			0.24	0.24		0.24				0 .28		0.32				0 .68	0.91								
(AMXXXXNMDEXX) MSPduct (with drain pump) (AMXXXKNMDEXX)			0.24	0.24		0.24				0 .28		0.32				0 .68									
Home Duct (AMXXXKNLDEH)		0.13	0.13	0.13		0.17																			
Ceiling (AMXXXFNCDEXX / AMXXXJNCDKXX)		0.13	0.13	0.13		0.17		0 .39		0 .39				0 .56		0 .95									
Console (AMXXXXNJDEXX)			0.16	0 27		0.27	0 27	0 27																	
Neo forte (AM X X X FNTDE X X)	0.24		0.24			0.24	0 .27	0.36		0.36															
Neo forte (with EEV) (AMXXXFNQDEXX)	0.34		0.34			0 .34	0 .51			0 .51															
AR5000 (AM X X X JNADK X X)	0.16		0.16	0.19		0.25	0.25	0.52		0.52	0.52														
AR5000 (with EEV) (AM X X X JNVDK X X)	0 .22		0 .22	0 .25		0 .34	0 .34	0 .71		0 .71	0 .71														
New Boracay (AM X X X KNTDE X X)	0.24		0.24	0.32		0.32	0.49	0.49		0.49															
New Boracay (with EEV) (AM X X X KNQDE X X)	0.24		0.24	0.32		0.32	0.49	0.49		0.49															
MAX 4 (with EEV) (AM X X X MNQDE X X)													0.49												
HSPduct(AM XXX FNHDE XX)														0.68	0 .68				1.18		1.18				
OAPduct (AM X X X JNEPE X X)																0 .68			1.18		1.18				
Big duct (AMXXXJNHFKXX)																		1.15		1.15					
Hydro Unit HE (AMXXXFNBDXX)																	0.6					0.7	1.2		
Hydro Unit HT (AM X X X FNBF X X)	O.6 note()																								
MCU (MCU-SXNEXXN)	0.5																								

[▶] If AHU kit is included among the indoor units, you must add 0.063kg of refrigerant for every 1kW of the AHU capacity increase.

Note1) In case the capacity conjunction of the Hydro Unit HT exceeds 50 % among the total indoor unit, please don't put the additional refrigerant.

Refrigerant pipe installation

- ▶ Method to calculate total amount of additional refrigerant
 - Amount of additional refrigerant depending on the pipe length (a)
 - Amount of additional refrigerant for each indoor unit (ⓑ) = ∑(Amount of additional refrigerant for each connected indoor unit)

 ★ Refer to the table
 - Total amount of additional refrigerant = @+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.) For AM200FXVAG*, basic amount of refrigerant is 8.4kg, therefore total amount of additional refrigerant (ⓐ+ⓑ) should not exceed 91.6 kg.

► Example of refrigerant calculation for HP models

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

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

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

► Example of refrigerant calculation for HR models

	· '							
	Classification	Size of	Length (m)	Unit amount of refrigerant (kg/m)	Total amount of additional refrigerant (kg)			
		liquid pipe	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	Ø 12.70	25	0.125	3.125			
	(a)	Ø 15.88	10	0.18	1.8	a 11.965		
((6		Ø 6.35 (EEV Kit ~ indoor unit)	2	0.01	0.02			

Refrigerant pipe installation

Classification	Model name of indoor unit	Number of units	Unit amount of refrigerant (kg/EA)	Amount of additional refrigerant (kg)	Total amount of additional refrigerant (kg)
	indoor unit	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
(6)	Neo forte (AM028FNTDEH*)	1	0.27	0.27	
	MCU	2	0.5	1	

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

Temper grade and minimum thickness of the refrigerant pipe

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



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

Additional refrigerant

Pipe installation between the outdoor units

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

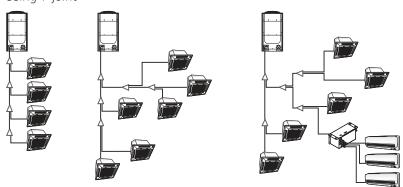
Caution	Correct installation	Incorrect installation
Refrigerant pipes should be connected at the same or lower level than the ones connected to the outdoor unit.		
Refrigerant pipes must be connected by the side of the product.	Straight section should be 300mm or more	
Branch joint between outdoor units must be installed horizontally.		
When the piping length between outdoor unit and the branch joint exceeds 2m, install a vertical trap as show in the figure.	200 ~ 300 mm Tm or less Over 2 m	Over 2 m

Refrigerant pipe installation

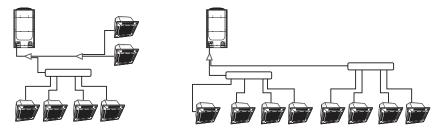
Examples of refrigerant pipe installation

H/P

1. Using Y-joint

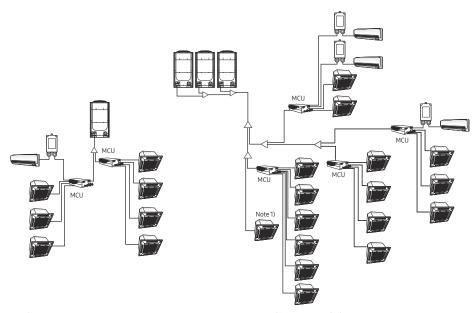


2. Using distribution header



H/R

Using Y-joint



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

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

Refrigerant pipe installation

Allowable length of the refrigerant pipe and the installation examples

H/P

Classification	Single Installation	Module installation
Installing only with Y-joint	Outdoor unit Branch joint A B C C D C F C C C C C C C C C C C C C C C	Outdoor unit Branch joint A B C C C C C C C C C C C C C C C C C C
Installing with Y-joint and distribution header	Outdoor unit Branch joint Distribution header 1 2 3 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Outdoor unit Distribution header Branch joint 7 8 102 Indoor unit
Installing only with distribution header	Outdoor unit Distribution header a Indoor unit	Outdoor unit Distribution header a header Indoor unit

Refrigerant pipe installation

Classification	n			Example		Remarks
		Actual	200m and	Installing only with Y-joint	a+b+c+d+e+f+g+p ≤ 200m(220m)	Equivalent
		length (Equivalent	below (220m	Installing with Y-joint and distribution header	a+b+h ≤ 200m (220m), a+i+k ≤ 200m (220m)	length Y-joint: 0.5 m, Distribution
	Outdoor unit ~	length)	and below)	Installing only with distribution header	a+i ≤ 200m (220m)	header: 1 m
Maximum allowable	Indoor unit			Installing only with Y-joint	a+b+c+d+e+f+g+h+i+ j+k+l+m+n+p≤1000m	-
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	-
		pipe (iri)	1033	Installing only with distribution header	a+b+c+d+e+f+g+h+i ≤1000m	-
	Outdoor unit ~ Outdoor unit (Module installation)	Pipe length	10 m or less	x ≤10 m, y ≤10 m, z ≤10 m		
		Equivalent length	13 m or less	x ≤ 13 m, y ≤ 13 m, z ≤ 13 r	X Y Z	
Maximum allowable	Outdoor unit ~ Indoor unit	110/110m	Note 2)	H1 ≤110/110m		
height difference	Indoor unit ~	50m or le	SS	H2 ≤ 50m		
of pipe	Indoor unit	But, when	AM***	*NQDEH***/AM***	12 is 15 m or less.	
				Installing only with Y-joint	b+c+d+e+f+g+p ≤ 45 m	
Maximum allowable length after branch joint	First branch	Pipe	45 m or less	Installing with Y-joint and distribution header	i+k ≤ 45 m	-
	joint ~ Farthest Indoor unit	length		Installing only with distribution header	i ≤ 45 m	
			45 m~ 90 m Note 1)	Required conditions must be satisfied		-

Refrigerant pipe installation

Electrical wiring work

EEV kit		Model	name	Remarks		
		2 m	MEV-E24SA	1 indooor		
		2 111	MEV-E32SA	1 1110001		
			MXD-E24K132A			
	EEV kit ~ Actual pipe Indoor unit length	20 m or less	MXD-E24K200A	2 indooor	Apply to products without EEV (Wall mount & ceiling)	
			MXD-E32K200A			
			MXD-E24K232A			
		MXD-E24K300A	7			
			MXD-E32K224A	3 indooor		
			MXD-E32K300A			

^{*} Please refer to the EEV Kit manual.

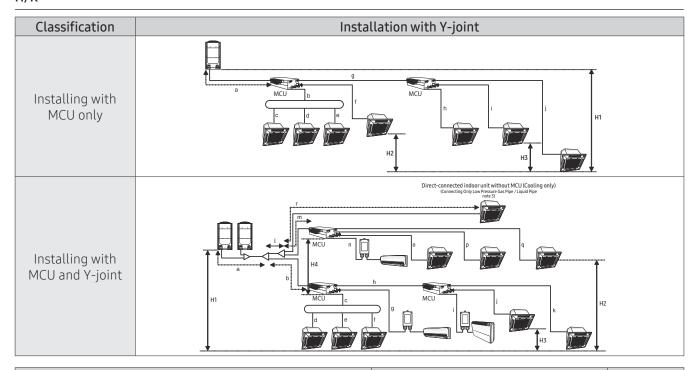
Note 1) Required condition

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

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

Refrigerant pipe installation

H/R



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

Refrigerant pipe installation

	Classi	fication			Example	Remarks
	Outdoor unit ~ Indoor unit		110 m / 110 m Note 1)	H1 ≤	110 m / 110 m	
N4 - 1	Indoor unit ~		40 m or less	ŀ	H2 ≤ 40 m	
Maximum allowable	Indoor unit	Pipe length		when AM XXXX V X is installed, F	NQDEH X / H2 is 15 m or less.	
height difference Indoor unit ~ Indoor unit (in one MCU)			15 m or less	H3 ≤15 m		
	MCU ~ MCU		30 m or less	H4 ≤ 30 m		
Maximum	<u></u>			Installing only with MCU	g+j ≤ 45 m	
allowable length after branch joint	First branch joint ~ Farthest Indoor unit	Pipe length	45 m or less	Installing with MCU and Y-joint	b+h+k ≤ 45 m l+m+q ≤ 45 m l+r≤ 45 m	
			45 ~ 90 m Note 2)	Required cond	itions must be satisfied	

EEV kit		Model	name	Remarks		
	2	MEV-E24SA	1 indooor			
		2 m	MEV-E32SA	1 1110001		
			MXD-E24K132A			
	EEV kit ~ Actual pipe Indoor unit length		MXD-E24K200A	2 indooor	Apply to products without EEV (Wall mount & ceiling)	
			MXD-E32K200A			
			MXD-E24K232A			
		MXD-E24K300A	3 indooor			
		MXD-E32K224A				
			MXD-E32K300A			

^{*} Please refer to the EEV Kit manual.

Refrigerant pipe installation

Note 1) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m, (If the height difference is over 40m, contact your local dealer for more information.) but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 110m (If the height difference is over 50m, need to decide whether to install PDM kit or not.)

Model name of the PDM kit: MXD-A38K2A, MXD-A12K2A, MXD-A58K2A

Note 2) Required condition

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

- Note 3) For indoor units to which no MCU is connected, be sure to set their options to "Cooling only indoor unit," and then connect them to a low pressure gas pipe and a liquid pipe. Be sure to combine the cooling only indoor units so that their total capacity becomes 50% or less of the total capacity of all indoor units.
- Note 4) In case of connecting more than one indoor unit in one MCU Port, the below indoor units can not be combined. ERV plus (AMXXXFNKDEXX), OAP duct(AMXXXJNEPEXX), Hydro Unit HE(AMXXXFNBDXX), Hydro Unit HT(AMXXXFNBFXX), AHU kit (MXD-KXXXAN, MCM-DXXXN)
- Note 5) In case of connecting two MCU ports with Y-joint, the indoor units can not be combined to more than one.

Refrigerant pipe installation

Installing the MCU

MCU specification

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



• Please connect these indoor units using EEV kit(MEV-EXXSA, MXD-EXXKXXA).

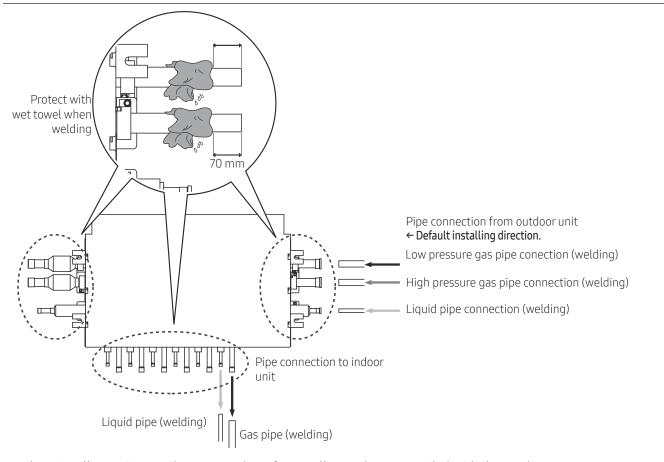
Refrigerant pipe installation

Installing the indoor units

Model	MCU-S6NEK2N	MCU-S4NEK3N	MCU-S2NEK2N	MCU-S1NEK1N
Example installing (Each port connection)				
Example installing (MCU series connection)	MCU series connection	MCU		
Installing indoor units	Under 16.0 kW indoor unit 16.0 kW ~ 28.0 kW indoor u If you want to continuous o operational temperature r Y-connector on 5.0 ~ 16 kW In case of using Y-connector, it Connectable port combination Non-connectable port combin continuous port Set Dip Switch option for S/W Option ON	unit: Use Y-connector at a cooling operation under- ange for cooling operation indoor unit sis only connectable for port of the for Y-connector: A + B port, ation for Y-connector: B + C using Y-connector s/w Option s/w Option s/w Option s/w Option s/w Option on in series, the maximum of the port of the formula in the following in the fol	5 °C, set outdoor 'Expand n (HR only)', and use combination at below C + D port, E + F port port, D + E port, non-	This unit is only connectable for one port under 16 Kw This unit is impossible to connect MCU to MCU in series.

Refrigerant pipe installation

How to connect the pipes



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

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



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