

VRF

Technical Data Book

DVM S Standard for Turkey (ODU, 50Hz, HP)



Model : AM***KXVAGH/TK

History

Version	Modification	Date	Remark
Ver.1.0	Release DVM S 30HP Standard TDB for Turkey	16.01.12.	
Ver.1.1	Modify MCA/MFA	16.03.17.	
Ver.1.2	Fan External Static Pressure Max. : 78.40 → 78.45 Piping Connections Installation Limitation Max. Height : 110(40) → 110(110)	16.10.17.	

Nomenclature

Outdoor Units

Model Names

AM	140	K	X	V	A	G	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	DVM
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(2) Capacity

x 1/10 HP (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

X	Outdoor Unit
N	Indoor Unit

(5) Feature1

V	Inverter
M	DVM S Eco

(6) Feature2

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

(7) Rating Voltage

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

(8) Mode

H	Heat Pump
R	Heat Recovery

Outdoor

1 Line-up

2 Specifications

3 Operation limit

4 Dimensional drawing

5 Electrical wiring diagram

6 Sound pressure level

7 Sound power level

8 Cycle diagram

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM140KXVAGH/TK		AM160KXVAGH/TK		AM180KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	14.00		16.00		18.00	
	Capacity (Nominal)	Cooling	kW	40.00		45.00		50.40	
			Btu/h	136,500		153,500		172,000	
		Heating	kW	45.00		50.40		56.70	
Btu/h			153,500		172,000		193,500		
Power	Power Input (Nominal)	Cooling 1)	kW	10.93		12.10		12.60	
		Heating 2)	kW	10.16		11.61		11.91	
	Current Input (Nominal)	Cooling 1)	A	17.50		19.40		20.20	
		Heating 2)	A	16.30		18.60		19.10	
	MCA		A	25.00		32.00		39.20	
	MFA		A	32.00		40.00		50.00	
COP	EER (Nominal Cooling)		-	3.66		3.72		4.00	
	COP (Nominal Heating)		-	4.43		4.34		4.76	
	Energy Grade	-	ESEER 7.02		ESEER 6.81		ESEER 6.61		
		-	-		-		-		
Compressor	Type		-	SSC Scroll x 1		SSC Scroll x 1		SSC Scroll x 1	
	Output		kW x n	(6.39)		(7.81)		(7.81)	
	Model Name		-	DS-GB066FAVBx1		DS4GJ5080FVAx1		DS4GJ5080FVAx1	
	Oil	Type	-	PVE		PVE		PVE	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	620.0x2		620.0x2		620.0x2	
	Air Flow Rate		CMM	255		255		290	
			l/s	4,250.00		4,250.00		4,833.33	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.40		78.40		78.40	
Piping Connections	Liquid Pipe		Ø, mm	12.70		12.70		15.88	
			Ø, inch	1/2"		1/2"		5/8"	
	Gas Pipe		Ø, mm	28.58		28.58		28.58	
			Ø, inch	1 1/8"		1 1/8"		1 1/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
		Max. Height	m	110 (40)		110 (40)		110 (40)	
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	7.70		8.40		8.40	
Sound	Pressure		dBA	61		63		64	
	Power			81		83		84	
External Dimension	New Weight		kg	226.0		253.0		255.0	
	Shipping Weight		kg	246.0		273.0		275.0	
	Net Dimensions (WxHxD)		mm	1,295x1,695x765		1,295x1,695x765		1,295x1,695x765	
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832		1,363x1,887x832		1,363x1,887x832	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM200KXVAGH/TK		AM220KXVAGH/TK		AM240KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP	HP	HP	HP	HP	
Performance	HP		HP	20.00	22.00	22.00	24.00	24.00	
	Capacity (Nominal)	Cooling	kW	56.00	61.60	61.60	67.20	67.20	
			Btu/h	191,100	210,200	210,200	229,300	229,300	
		Heating	kW	63.00	69.30	69.30	75.60	75.60	
			Btu/h	215,000	236,500	236,500	258,000	258,000	
Power	Power Input (Nominal)	Cooling 1)	kW	14.18	17.35	17.35	17.10	17.10	
		Heating 2)	kW	13.91	16.70	16.70	17.42	17.42	
	Current Input (Nominal)	Cooling 1)	A	22.70	27.80	27.80	27.40	27.40	
		Heating 2)	A	22.30	26.80	26.80	27.90	27.90	
	MCA		A	42.00	44.60	44.60	55.00	55.00	
	MFA		A	63.00	63.00	63.00	63.00	63.00	
COP	EER (Nominal Cooling)		-	3.95	3.55	3.55	3.93	3.93	
	COP (Nominal Heating)		-	4.53	4.15	4.15	4.34	4.34	
	Energy Grade	-	ESEER 6.56	ESEER 6.25	ESEER 6.25	ESEER 7.06	ESEER 7.06		
		-	-	-	-	-	-		
Compressor	Type		-	SSC Scroll x 2	SSC Scroll x 2	SSC Scroll x 2	SSC Scroll x 2	SSC Scroll x 2	
	Output		kW x n	(5.18 x 2)	(6.39 x 2)	(6.39 x 2)	(6.39 x 2)	(6.39 x 2)	
	Model Name		-	DS-GB052FAVBx2	DS-GB066FAVBx2	DS-GB066FAVBx2	DS-GB066FAVBx2	DS-GB066FAVBx2	
	Oil	Type	-	PVE	PVE	PVE	PVE	PVE	
	Type		-	Propeller	Propeller	Propeller	Propeller	Propeller	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller	Propeller	
	Output x n		W	620.0x2	620.0x2	620.0x2	620.0x2	620.0x2	
	Air Flow Rate		CMM	290	290	290	340	340	
			l/s	4,833.33	4,833.33	4,833.33	5,666.67	5,666.67	
	External Static	Max.	mmAQ	8.00	8.00	8.00	8.00	8.00	
			Pa	78.40	78.40	78.40	78.40	78.40	
Piping Connections	Liquid Pipe		Ø, mm	15.88	15.88	15.88	15.88		
			Ø, inch	5/8"	5/8"	5/8"	5/8"		
	Gas Pipe		Ø, mm	28.58	28.58	28.58	34.92		
			Ø, inch	1 1/8"	1 1/8"	1 1/8"	1 3/8"		
	Discharge Gas Pipe		Ø, mm	-	-	-	-		
			Ø, inch	-	-	-	-		
	Installation Limitation	Max. Length	m	200 (220)	200 (220)	200 (220)	200 (220)		
			Max. Height	m	110 (40)	110 (40)	110 (40)	110 (40)	
Field Wiring	Power Source Wire		mm²	-	-	-	-		
	Transmission Cable		mm²	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A	R410A	R410A		
	Factory Charging		kg	8.40	8.40	8.40	12.50		
Sound	Pressure		dBA	65	65	65	66		
	Power			87	89	89	89		
External Dimension	New Weight		kg	277.0	285.0	285.0	333.0		
	Shipping Weight		kg	297.0	305.0	305.0	355.0		
	Net Dimensions (WxHxD)		mm	1,295x1,695x765	1,295x1,695x765	1,295x1,695x765	1,295x1,795x765		
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832	1,363x1,887x832	1,363x1,887x832	1,363x1,987x832		
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0		
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0		

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM260KXVAGH/TK		AM280KXVAGH/TK		AM300KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	26.00		28.00		30.00	
	Capacity (Nominal)	Cooling	kW	72.80		78.60		84.00	
			Btu/h	248,400		268,200		286,600	
		Heating	kW	81.90		88.20		94.50	
			Btu/h	279,500		301,000		322,400	
Power	Power Input (Nominal)	Cooling 1)	kW	18.91		20.68		22.70	
		Heating 2)	kW	18.00		20.18		20.59	
	Current Input (Nominal)	Cooling 1)	A	30.30		33.20		36.40	
		Heating 2)	A	28.90		32.40		33.00	
	MCA		A	60.00		67.00		73.00	
	MFA		A	75.00		75.00		80.00	
COP	EER (Nominal Cooling)		-	3.85		3.80		3.70	
	COP (Nominal Heating)		-	4.55		4.37		4.59	
	Energy Grade	-	ESEER 6.92		ESEER 6.83		ESEER 6.65		
		-	-		-		-		
Compressor	Type		-	SSC Scroll x 2		SSC Scroll x 2		SSC Scroll x 2	
	Output		kW x n	(6.39 x 2)		(6.76 x 2)		(7.81 x 2)	
	Model Name		-	DS-GB066FAVBx2		DS-GB070FAVAx2		DS4GJ5080FVAx2	
	Oil	Type	-	PVE		PVE		PVE	
	Type		-	Propeller		Propeller		Propeller	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	620.0x2		620.0x2		620.0x2	
	Air Flow Rate		CMM	340		340		340	
			l/s	5,666.67		5,666.67		5,666.67	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.45		78.45		78.45	
Piping Connections	Liquid Pipe		Ø, mm	19.05		19.05		19.05	
			Ø, inch	3/4"		3/4"		3/4"	
	Gas Pipe		Ø, mm	34.92		34.92		34.92	
			Ø, inch	1 3/8"		1 3/8"		1 3/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
		Max. Height	m	110 (110)		110 (110)		110 (110)	
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	12.50		14.00		14.00	
Sound	Pressure		dBA	66		69		69	
	Power			89		90		90	
External Dimension	New Weight		kg	333.0		342.0		350.0	
	Shipping Weight		kg	355.0		364.0		372.0	
	Net Dimensions (WxHxD)		mm	1,295x1,795x765		1,295x1,795x765		1,295x1,795x765	
	Shipping Dimensions (WxHxD)		mm	1,363x1,987x832		1,363x1,987x832		1,363x1,987x832	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM320KXVAGH/TK		AM340KXVAGH/TK		AM360KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	32.00		34.00		36.00	
	Capacity (Nominal)	Cooling	kW	90.40		95.40		101.60	
			Btu/h	308,500		325,500		346,700	
		Heating	kW	101.70		107.10		114.30	
			Btu/h	347,000		365,400		390,000	
Power	Power Input (Nominal)	Cooling 1)	kW	23.53		24.70		28.28	
		Heating 2)	kW	22.07		23.52		26.86	
	Current Input (Nominal)	Cooling 1)	A	37.70		39.60		45.30	
		Heating 2)	A	35.40		37.70		43.10	
	MCA		A	64.20		71.20		69.60	
	MFA		A	80.00		80.00		80.00	
COP	EER (Nominal Cooling)		-	3.84		3.86		3.59	
	COP (Nominal Heating)		-	4.61		4.55		4.26	
	Energy Grade		-	-		-		-	
			-	-		-		-	
Compressor	Type		-	SSC Scroll x 2		SSC Scroll x 2		SSC Scroll x 3	
	Output		kW x n	(6.39) + (7.81)		(7.81) + (7.81)		(6.39) + (6.39x2)	
	Model Name		-	DS-GB066FAVBx1 + DS4GJ5080FVAX1		DS4GJ5080FVAX2		DS-GB066FAVBx3	
	Oil	Type	-	PVE		PVE		PVE	
	Type		-	Propeller		Propeller		Propeller	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	(620.0x2)x2		(620.0x2)x2		(620.0x2)x2	
	Air Flow Rate		CMM	255.0 + 290.0		255.0 + 290.0		255.0 + 290.0	
			l/s	4,250.0 + 4,833.3		4,250.0 + 4,833.3		4,250.0 + 4,833.3	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.45		78.45		78.45	
Piping Connections	Liquid Pipe		Ø, mm	19.05		19.05		19.05	
			Ø, inch	3/4"		3/4"		3/4"	
	Gas Pipe		Ø, mm	34.92		34.92		41.28	
			Ø, inch	1 3/8"		1 3/8"		1 5/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
		Max. Height	m	110 (110)		110 (110)		110 (110)	
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	16.10		16.80		16.10	
Sound	Pressure		dBA	-		-		-	
	Power			-		-		-	
External Dimension	New Weight		kg	226.0 + 255.0		253.0 + 255.0		226.0 + 285.0	
	Shipping Weight		kg	246.0 + 275.0		273.0 + 275.0		246.0 + 305.0	
	Net Dimensions (WxHxD)		mm	(1,295x1,695x765)x2		(1,295x1,695x765)x2		(1,295x1,695x765)x2	
	Shipping Dimensions (WxHxD)		mm	(1,363x1,887x832)x2		(1,363x1,887x832)x2		(1,363x1,887x832)x2	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM380KXVAGH/TK		AM400KXVAGH/TK		AM420KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	38.00		40.00		42.00	
	Capacity (Nominal)	Cooling	kW	106.60		112.00		117.60	
			Btu/h	363,700		382,200		401,300	
		Heating	kW	119.70		126.00		132.30	
			Btu/h	408,400		429,900		451,400	
Power	Power Input (Nominal)	Cooling 1)	kW	29.45		29.95		31.53	
		Heating 2)	kW	28.31		28.61		30.61	
	Current Input (Nominal)	Cooling 1)	A	47.20		48.00		50.50	
		Heating 2)	A	45.40		45.90		49.10	
	MCA		A	76.60		83.80		86.60	
	MFA		A	90.00		100.00		100.00	
COP	EER (Nominal Cooling)		-	3.62		3.74		3.73	
	COP (Nominal Heating)		-	4.23		4.40		4.32	
	Energy Grade	-	-		-		-		
		-	-		-		-		
Compressor	Type		-	SSC Scroll x 3		SSC Scroll x 3		SSC Scroll x 4	
	Output		kW x n	(7.81) + (6.39x2)		(7.81) + (6.39x2)		(5.18x2) + (6.39x2)	
	Model Name		-	DS4GJ5080FVAx1 + DS-GB066FAVBx2		DS4GJ5080FVAx1 + DS-GB066FAVBx2		DS-GB052FAVBx2 + DS-GB066FAVBx2	
	Oil	Type	-	PVE		PVE		PVE	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	(620.0x2)x2		(620.0x2)x2		(620.0x2)x2	
	Air Flow Rate		CMM	255.0 + 290.0		290.0x2		290.0x2	
			l/s	4,250.0 + 4,833.3		4,833.3x2		4,833.3x2	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.45		78.45		78.45	
Piping Connections	Liquid Pipe		Ø, mm	19.05		19.05		19.05	
			Ø, inch	3/4"		3/4"		3/4"	
	Gas Pipe		Ø, mm	41.28		41.28		41.28	
			Ø, inch	1 5/8"		1 5/8"		1 5/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
		Max. Height	m	110 (110)		110 (110)		110 (110)	
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	16.80		16.80		16.80	
Sound	Pressure		dBA	-		-		-	
	Power			-		-		-	
External Dimension	New Weight		kg	253.0 + 285.0		255.0 + 285.0		277.0 + 285.0	
	Shipping Weight		kg	273.0 + 305.0		275.0 + 305.0		297.0 + 305.0	
	Net Dimensions (WxHxD)		mm	(1,295x1,695x765)x2		(1,295x1,695x765)x2		(1,295x1,695x765)x2	
	Shipping Dimensions (WxHxD)		mm	(1,363x1,887x832)x2		(1,363x1,887x832)x2		(1,363x1,887x832)x2	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)	
Model Name			AM440KXVAGH/TK		AM460KXVAGH/TK		AM480KXVAGH/TK	
Power Supply			Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50		
Mode			-	HP	HP	HP		
Performance	HP		HP	44.00	46.00	48.00		
	Capacity (Nominal)	Cooling	kW	124.00	129.00	134.40		
			Btu/h	423,100	440,200	458,600		
		Heating	kW	139.50	144.90	151.20		
			Btu/h	476,000	494,400	515,900		
Power	Power Input (Nominal)	Cooling 1)	kW	33.63	34.80	35.30		
		Heating 2)	kW	30.75	32.20	32.50		
	Current Input (Nominal)	Cooling 1)	A	53.90	55.80	56.60		
		Heating 2)	A	49.30	51.60	52.10		
	MCA		A	98.00	105.00	112.20		
	MFA		A	125.00	125.00	125.00		
COP	EER (Nominal Cooling)		-	3.69	3.71	3.81		
	COP (Nominal Heating)		-	4.54	4.50	4.65		
	Energy Grade		-	-	-	-		
			-	-	-	-		
Compressor	Type		-	SSC Scroll x 3	SSC Scroll x 3	SSC Scroll x 3		
	Output		kW x n	(6.39) + (7.81x2)	(7.81) + (7.81x2)	(7.81) + (7.81x2)		
	Model Name		-	DS-GB066FAVBx1 + DS4GJ5080FVAX2	DS4GJ5080FVAX3	DS4GJ5080FVAX3		
	Oil	Type	-	PVE	PVE	PVE		
	Fan		-	Propeller	Propeller	Propeller		
Fan	Type		-	Propeller	Propeller	Propeller		
	Output x n		W	(620.0x2)x2	(620.0x2)x2	(620.0x2)x2		
	Air Flow Rate		CMM	255.0 + 340.0	255.0 + 340.0	290.0 + 340.0		
			l/s	4,250.0 + 5,666.7	4,250.0 + 5,666.7	4,833.3 + 5,666.7		
	External Static	Max.	mmAQ	8.00	8.00	8.00		
			Pa	78.45	78.45	78.45		
Piping Connections	Liquid Pipe		Ø, mm	19.05	19.05	19.05		
			Ø, inch	3/4"	3/4"	3/4"		
	Gas Pipe		Ø, mm	41.28	41.28	41.28		
			Ø, inch	1 5/8"	1 5/8"	1 5/8"		
	Discharge Gas Pipe		Ø, mm	-	-	-		
			Ø, inch	-	-	-		
	Installation Limitation	Max. Length	m	200 (220)	200 (220)	200 (220)		
			Max. Height	m	110 (110)	110 (110)	110 (110)	
Field Wiring	Power Source Wire		mm²	-	-	-		
	Transmission Cable		mm²	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A	R410A		
	Factory Charging		kg	21.70	22.40	22.40		
Sound	Pressure		dBA	-	-	-		
	Power			-	-	-		
External Dimension	New Weight		kg	226.0 + 350.0	253.0 + 350.0	255.0 + 350.0		
	Shipping Weight		kg	246.0 + 372.0	273.0 + 372.0	275.0 + 372.0		
	Net Dimensions (WxHxD)		mm	1,295x1,695x765 + 1,295x1,795x765	1,295x1,695x765 + 1,295x1,795x765	1,295x1,695x765 + 1,295x1,795x765		
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832 + 1,363x1,987x832	1,363x1,887x832 + 1,363x1,987x832	1,363x1,887x832 + 1,363x1,987x832		
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0		
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0		

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM500KXVAGH/TK		AM520KXVAGH/TK		AM540KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	50.00		52.00		54.00	
	Capacity (Nominal)	Cooling	kW	140.00		145.60		151.20	
			Btu/h	477,700		496,800		515,900	
		Heating	kW	157.50		163.80		170.10	
			Btu/h	537,400		558,900		580,400	
Power	Power Input (Nominal)	Cooling 1)	kW	36.88		40.05		39.80	
		Heating 2)	kW	34.50		37.29		38.01	
	Current Input (Nominal)	Cooling 1)	A	59.10		64.20		63.80	
		Heating 2)	A	55.30		59.80		60.90	
	MCA		A	115.00		117.60		128.00	
	MFA		A	150.00		150.00		150.00	
COP	EER (Nominal Cooling)		-	3.80		3.64		3.80	
	COP (Nominal Heating)		-	4.57		4.39		4.48	
	Energy Grade	-	-	-		-		-	
		-	-	-		-		-	
Compressor	Type		-	SSC Scroll x 4		SSC Scroll x 4		SSC Scroll x 4	
	Output		kW x n	(5.18x2) + (7.81x2)		(6.39x2) + (7.81x2)		(6.39x2) + (7.81x2)	
	Model Name		-	DS-GB052FAVBx2 + DS4GJ5080FVAx2		DS-GB066FAVBx2 + DS4GJ5080FVAx2		DS-GB066FAVBx2 + DS4GJ5080FVAx2	
	Oil	Type	-	PVE		PVE		PVE	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	(620.0x2)x2		(620.0x2)x2		(620.0x2)x2	
	Air Flow Rate		CMM	290.0 + 340.0		290.0 + 340.0		340.0x2	
			l/s	4,833.3 + 5,666.7		4,833.3 + 5,666.7		5,666.7x2	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.45		78.45		78.45	
Piping Connections	Liquid Pipe		Ø, mm	19.05		19.05		19.05	
			Ø, inch	3/4"		3/4"		3/4"	
	Gas Pipe		Ø, mm	41.28		41.28		41.28	
			Ø, inch	1 5/8"		1 5/8"		1 5/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
			Max. Height	m	110 (110)		110 (110)		110 (110)
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	22.40		22.40		26.50	
Sound	Pressure		dBA	-		-		-	
	Power			-		-		-	
External Dimension	New Weight		kg	277.0 + 350.0		285.0 + 350.0		333.0 + 350.0	
	Shipping Weight		kg	297.0 + 372.0		305.0 + 372.0		355.0 + 372.0	
	Net Dimensions (WxHxD)		mm	1,295x1,695x765 + 1,295x1,795x765		1,295x1,695x765 + 1,295x1,795x765		(1,295x1,795x765)x2	
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832 + 1,363x1,987x832		1,363x1,887x832 + 1,363x1,987x832		(1,363x1,987x832)x2	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)	DVM S(NEW)	DVM S(NEW)
Model Name			AM560KXVAGH/TK	AM580KXVAGH/TK	AM600KXVAGH/TK
Power Supply			Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50
Mode			-	HP	HP
Performance	HP		HP	56.00	58.00
	Capacity (Nominal)	Cooling	kW	156.80	162.60
			Btu/h	535,000	554,800
		Heating	kW	176.40	182.70
			Btu/h	601,900	623,400
Power	Power Input (Nominal)	Cooling 1)	kW	41.61	43.39
		Heating 2)	kW	38.59	40.77
	Current Input (Nominal)	Cooling 1)	A	66.70	69.60
		Heating 2)	A	61.90	65.40
	MCA		A	133.00	140.00
COP	EER (Nominal Cooling)		-	3.77	3.75
	COP (Nominal Heating)		-	4.57	4.48
	Energy Grade		-	-	-
			-	-	-
Compressor	Type		-	SSC Scroll x 4	SSC Scroll x 4
	Output		kW x n	(6.39x2) + (7.81x2)	(6.76x2) + (7.81x2)
	Model Name		-	DS-GB066FAVBx2 + DS4GJ5080FVAX2	DS-GB070FAVBx2 + DS4GJ5080FVAX2
	Oil	Type	-	PVE	PVE
Fan	Type		-	Propeller	Propeller
	Output x n		W	(620.0x2)x2	(620.0x2)x2
	Air Flow Rate		CMM	340.0x2	340.0x2
			l/s	5,666.7x2	5,666.7x2
	External Static	Max.	mmAQ	8.00	8.00
Piping Connections	Liquid Pipe		Ø, mm	19.05	19.05
			Ø, inch	3/4"	3/4"
	Gas Pipe		Ø, mm	41.28	41.28
			Ø, inch	1 5/8"	1 5/8"
	Discharge Gas Pipe		Ø, mm	-	-
			Ø, inch	-	-
	Installation Limitation	Max. Length	m	200 (220)	200 (220)
		Max. Height	m	110 (110)	110 (110)
Field Wiring	Power Source Wire		mm²	-	-
	Transmission Cable		mm²	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	26.50	28.00
Sound	Pressure		dBA	-	-
	Power		-	-	-
External Dimension	New Weight		kg	333.0 + 350.0	350.0x2
	Shipping Weight		kg	355.0 + 372.0	372.0x2
	Net Dimensions (WxHxD)		mm	(1,295x1,795x765)x2	(1,295x1,795x765)x2
	Shipping Dimensions (WxHxD)		mm	(1,363x1,987x832)x2	(1,363x1,987x832)x2
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM620KXVAGH/TK		AM640KXVAGH/TK		AM660KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP	HP	HP	HP	HP	
Performance	HP		HP	62.00	64.00	66.00	66.00	66.00	
	Capacity (Nominal)	Cooling	kW	174.40	179.40	184.80	184.80	184.80	
			Btu/h	595,100	612,100	630,600	630,600	630,600	
		Heating	kW	196.20	201.60	207.90	207.90	207.90	
			Btu/h	669,500	687,900	709,400	709,400	709,400	
Power	Power Input (Nominal)	Cooling 1)	kW	46.23	47.40	47.90	47.90	47.90	
		Heating 2)	kW	42.66	44.11	44.41	44.41	44.41	
	Current Input (Nominal)	Cooling 1)	A	74.10	76.00	76.80	76.80	76.80	
		Heating 2)	A	68.40	70.70	71.20	71.20	71.20	
	MCA		A	137.20	144.20	151.40	151.40	151.40	
	MFA		A	175.00	175.00	175.00	175.00	175.00	
COP	EER (Nominal Cooling)		-	3.77	3.78	3.86	3.86	3.86	
	COP (Nominal Heating)		-	4.60	4.57	4.68	4.68	4.68	
	Energy Grade		-	-	-	-	-	-	
			-	-	-	-	-	-	
Compressor	Type		-	SSC Scroll x 4	SSC Scroll x 4	SSC Scroll x 4	SSC Scroll x 4	SSC Scroll x 4	
	Output		kW x n	(6.39) + (7.81) + (7.81x2)	(7.81) + (7.81) + (7.81x2)	(7.81)x2 + (7.81x2)	(7.81)x2 + (7.81x2)	(7.81)x2 + (7.81x2)	
	Model Name		-	DS-GB066FAVBx1 + DS4GJ5080FVAX3	DS4GJ5080FVAX4	DS4GJ5080FVAX4	DS4GJ5080FVAX4	DS4GJ5080FVAX4	
	Oil	Type	-	PVE	PVE	PVE	PVE	PVE	
	Type		-	Propeller	Propeller	Propeller	Propeller	Propeller	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller	Propeller	
	Output x n		W	(620.0x2)x3	(620.0x2)x3	(620.0x2)x3	(620.0x2)x3	(620.0x2)x3	
	Air Flow Rate		CMM	255.0 + 290.0 + 340.0	255.0 + 290.0 + 340.0	290.0x2 + 340.0	290.0x2 + 340.0	290.0x2 + 340.0	
			l/s	4,250.0 + 4,833.3 + 5,666.7	4,250.0 + 4,833.3 + 5,666.7	4,833.3x2 + 5,666.7	4,833.3x2 + 5,666.7	4,833.3x2 + 5,666.7	
	External Static	Max.	mmAQ	8.00	8.00	8.00	8.00	8.00	
Piping Connections	Liquid Pipe		Ø, mm	22.22	22.22	22.22	22.22	22.22	
			Ø, inch	7/8"	7/8"	7/8"	7/8"	7/8"	
	Gas Pipe		Ø, mm	53.98	53.98	53.98	53.98	53.98	
			Ø, inch	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	
	Discharge Gas Pipe		Ø, mm	-	-	-	-	-	
			Ø, inch	-	-	-	-	-	
	Installation Limitation	Max. Length	m	200 (220)	200 (220)	200 (220)	200 (220)	200 (220)	
			Max. Height	m	110 (110)	110 (110)	110 (110)	110 (110)	110 (110)
	Field Wiring	Power Source Wire		mm²	-	-	-	-	-
Transmission Cable		mm²	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50		
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	
	Factory Charging		kg	30.10	30.80	30.80	30.80	30.80	
Sound	Pressure		dBA	-	-	-	-	-	
	Power			-	-	-	-	-	
External Dimension	New Weight		kg	226.0 + 255.0 + 350.0	253.0 + 255.0 + 350.0	255.0x2 + 350.0	255.0x2 + 350.0	255.0x2 + 350.0	
	Shipping Weight		kg	246.0 + 275.0 + 372.0	273.0 + 275.0 + 372.0	275.0x2 + 372.0	275.0x2 + 372.0	275.0x2 + 372.0	
	Net Dimensions (WxHxD)		mm	(1,295x1,695x765)x2 + 1,295x1,795x765	(1,295x1,695x765)x2 + 1,295x1,795x765	(1,295x1,695x765)x2 + 1,295x1,795x765	(1,295x1,695x765)x2 + 1,295x1,795x765	(1,295x1,695x765)x2 + 1,295x1,795x765	
	Shipping Dimensions (WxHxD)		mm	(1,363x1,887x832)x2 + 1,363x1,987x832	(1,363x1,887x832)x2 + 1,363x1,987x832	(1,363x1,887x832)x2 + 1,363x1,987x832	(1,363x1,887x832)x2 + 1,363x1,987x832	(1,363x1,887x832)x2 + 1,363x1,987x832	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)		
Model Name			AM680KXVAGH/TK		AM700KXVAGH/TK		AM720KXVAGH/TK		
Power Supply			Ø, #, V, Hz	3,4,380-415,50		3,4,380-415,50		3,4,380-415,50	
Mode			-	HP		HP		HP	
Performance	HP		HP	68.00		70.00		72.00	
	Capacity (Nominal)	Cooling	kW	190.40		196.00		201.60	
			Btu/h	649,700		668,800		687,900	
		Heating	kW	214.20		220.50		226.80	
			Btu/h	730,900		752,400		773,900	
Power	Power Input (Nominal)	Cooling 1)	kW	49.48		52.65		54.23	
		Heating 2)	kW	46.41		49.20		51.19	
	Current Input (Nominal)	Cooling 1)	A	79.30		84.40		86.90	
		Heating 2)	A	74.40		78.90		82.10	
	MCA		A	154.20		156.80		159.60	
	MFA		A	175.00		175.00		175.00	
COP	EER (Nominal Cooling)		-	3.85		3.72		3.72	
	COP (Nominal Heating)		-	4.62		4.48		4.43	
	Energy Grade	-	-		-		-		
		-	-		-		-		
Compressor	Type		-	SSC Scroll x 5		SSC Scroll x 5		SSC Scroll x 6	
	Output		kW x n	(7.81) + (5.18x2) + (7.81x2)		(7.81) + (6.39x2) + (7.81x2)		(5.18x2) + (6.39x2) + (7.81x2)	
	Model Name		-	DS4GJ5080FVAx3 + DS-GB052FAVBx2		DS4GJ5080FVAx3 + DS-GB066FAVBx2		DS-GB052FAVBx2 + DS-GB066FAVBx2 + DS4GJ5080FVAx2	
	Oil	Type	-	PVE		PVE		PVE	
Fan	Type		-	Propeller		Propeller		Propeller	
	Output x n		W	(620.0x2)x3		(620.0x2)x3		(620.0x2)x3	
	Air Flow Rate		CMM	290.0x2 + 340.0		290.0x2 + 340.0		290.0x2 + 340.0	
			l/s	4,833.3x2 + 5,666.7		4,833.3x2 + 5,666.7		4,833.3x2 + 5,666.7	
	External Static	Max.	mmAQ	8.00		8.00		8.00	
			Pa	78.45		78.45		78.45	
Piping Connections	Liquid Pipe		Ø, mm	22.22		22.22		22.22	
			Ø, inch	7/8"		7/8"		7/8"	
	Gas Pipe		Ø, mm	53.98		53.98		53.98	
			Ø, inch	2 1/8"		2 1/8"		2 1/8"	
	Discharge Gas Pipe		Ø, mm	-		-		-	
			Ø, inch	-		-		-	
	Installation Limitation	Max. Length	m	200 (220)		200 (220)		200 (220)	
		Max. Height	m	110 (110)		110 (110)		110 (110)	
Field Wiring	Power Source Wire		mm²	-		-		-	
	Transmission Cable		mm²	0.75 ~ 1.50		0.75 ~ 1.50		0.75 ~ 1.50	
Refrigerant	Type		-	R410A		R410A		R410A	
	Factory Charging		kg	30.80		30.80		30.80	
Sound	Pressure		dBA	-		-		-	
	Power			-		-		-	
External Dimension	New Weight		kg	255.0 + 277.0 + 350.0		255.0 + 285.0 + 350.0		277.0 + 285.0 + 350.0	
	Shipping Weight		kg	275.0 + 297.0 + 372.0		275.0 + 305.0 + 372.0		297.0 + 305.0 + 372.0	
	Net Dimensions (WxHxD)		mm	(1,295x1,695x765)x2 + 1,295x1,795x765		(1,295x1,695x765)x2 + 1,295x1,795x765		(1,295x1,695x765)x2 + 1,295x1,795x765	
	Shipping Dimensions (WxHxD)		mm	(1,363x1,887x832)x2 + 1,363x1,987x832		(1,363x1,887x832)x2 + 1,363x1,987x832		(1,363x1,887x832)x2 + 1,363x1,987x832	
Operating Temp.	Cooling		°C	-5.0 ~ 48.0		-5.0 ~ 48.0		-5.0 ~ 48.0	
	Heating		°C	-25.0 ~ 24.0		-25.0 ~ 24.0		-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)	DVM S(NEW)	DVM S(NEW)
Model Name			AM740KXVAGH/TK	AM760KXVAGH/TK	AM780KXVAGH/TK
Power Supply		Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Mode			HP	HP	HP
Performance	HP		HP	74.00	76.00
	Capacity (Nominal)	Cooling	kW	207.20	212.80
			Btu/h	707,000	726,100
		Heating	kW	233.10	239.40
			Btu/h	795,400	816,900
Power	Power Input (Nominal)	Cooling 1)	kW	57.41	57.15
		Heating 2)	kW	53.99	54.71
	Current Input (Nominal)	Cooling 1)	A	92.00	91.60
		Heating 2)	A	86.60	87.70
	MCA		A	162.20	172.60
COP	MFA		A	200.00	200.00
	EER (Nominal Cooling)		-	3.61	3.72
	COP (Nominal Heating)		-	4.32	4.38
	Energy Grade		-	-	-
Compressor	Type		-	SSC Scroll x 6	SSC Scroll x 6
	Output		kW x n	(6.39x2)x2 + (7.81x2)	(6.39x2) + (6.39x2) + (7.81x2)
	Model Name		-	DS-GB066FAVBx4 + DS4GJ5080FVAx2	DS-GB066FAVBx4 + DS4GJ5080FVAx2
	Oil	Type	-	PVE	PVE
Fan	Type		-	Propeller	Propeller
	Output x n		W	(620.0x2)x3	(620.0x2)x3
	Air Flow Rate		CMM	290.0x2 + 340.0	290.0 + 340.0x2
			l/s	4,833.3x2 + 5,666.7	4,833.3 + 5,666.7x2
	External Static	Max.	mmAQ	8.00	8.00
Piping Connections	Liquid Pipe		Ø, mm	22.22	22.22
			Ø, inch	7/8"	7/8"
	Gas Pipe		Ø, mm	53.98	53.98
			Ø, inch	2 1/8"	2 1/8"
	Discharge Gas Pipe		Ø, mm	-	-
			Ø, inch	-	-
	Installation Limitation	Max. Length	m	200 (220)	200 (220)
		Max. Height	m	110 (110)	110 (110)
Field Wiring	Power Source Wire		mm ²	-	-
	Transmission Cable		mm ²	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	30.80	34.90
Sound	Pressure		dBA	-	-
	Power		-	-	-
External Dimension	New Weight		kg	285.0x2 + 350.0	285.0 + 333.0 + 350.0
	Shipping Weight		kg	305.0x2 + 372.0	305.0 + 355.0 + 372.0
	Net Dimensions (WxHxD)		mm	(1,295x1,695x765)x2 + 1,295x1,795x765	1,295x1,695x765 + (1,295x1,795x765)x2
	Shipping Dimensions (WxHxD)		mm	(1,363x1,887x832)x2 + 1,363x1,987x832	1,363x1,887x832 + (1,363x1,987x832)x2
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)	DVM S(NEW)	DVM S(NEW)
Model Name			AM800KXVAGH/TK	AM820KXVAGH/TK	AM840KXVAGH/TK
Power Supply			Ø, #, V, Hz	3,4,380-415,50	3,4,380-415,50
Mode			-	HP	HP
Performance	HP		HP	80.00	82.00
	Capacity (Nominal)	Cooling	kW	224.20	229.60
			Btu/h	765,000	783,400
		Heating	kW	252.00	258.30
			Btu/h	859,900	881,400
Power	Power Input (Nominal)	Cooling 1)	kW	60.74	62.76
		Heating 2)	kW	57.47	57.88
	Current Input (Nominal)	Cooling 1)	A	97.40	100.60
		Heating 2)	A	92.20	92.80
	MCA		A	184.60	190.60
COP	EER (Nominal Cooling)		-	3.69	3.66
	COP (Nominal Heating)		-	4.38	4.46
	Energy Grade		-	-	-
			-	-	-
Compressor	Type		-	SSC Scroll x 6	SSC Scroll x 6
	Output		kW x n	(6.39x2) + (6.76x2) + (7.81x2)	(6.39x2) + (7.81x2)x2
	Model Name		-	DS-GB066FAVBx2 + DS-GB070FAVAX2 + DS4GJ5080FVAX2	DS-GB066FAVBx2 + DS4GJ5080FVAX4
	Oil	Type	-	PVE	PVE
Fan	Type		-	Propeller	Propeller
	Output x n		W	(620.0x2)x3	(620.0x2)x3
	Air Flow Rate		CMM	290.0 + 340.0x2	290.0 + 340.0x2
			l/s	4,833.3 + 5,666.7x2	4,833.3 + 5,666.7x2
	External Static	Max.	mmAQ	8.00	8.00
Piping Connections	Liquid Pipe		Ø, mm	22.22	22.22
			Ø, inch	7/8"	7/8"
	Gas Pipe		Ø, mm	53.98	53.98
			Ø, inch	2 1/8"	2 1/8"
	Discharge Gas Pipe		Ø, mm	-	-
			Ø, inch	-	-
	Installation Limitation	Max. Length	m	200 (220)	200 (220)
		Max. Height	m	110 (110)	110 (110)
Field Wiring	Power Source Wire		mm ²	-	-
	Transmission Cable		mm ²	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Factory Charging		kg	36.40	40.50
Sound	Pressure		dBA	-	-
	Power		-	-	-
External Dimension	New Weight		kg	285.0 + 342.0 + 350.0	285.0 + 350.0x2
	Shipping Weight		kg	305.0 + 364.0 + 372.0	305.0 + 372.0x2
	Net Dimensions (WxHxD)		mm	1,295x1,695x765 + (1,295x1,795x765)x2	1,295x1,695x765 + (1,295x1,795x765)x2
	Shipping Dimensions (WxHxD)		mm	1,363x1,887x832 + (1,363x1,987x832)x2	1,363x1,887x832 + (1,363x1,987x832)x2
Operating Temp.	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating		°C	-25.0 ~ 24.0	-25.0 ~ 24.0

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

4) 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

2 Specifications

Outdoor

Type			DVM S(NEW)		DVM S(NEW)		DVM S(NEW)	
Model Name			AM860KXVAGH/TK		AM880KXVAGH/TK		AM900KXVAGH/TK	
Power Supply			Ø, #, V, Hz		3,4,380-415,50		3,4,380-415,50	
Mode			-		HP		HP	
Performance	HP	Capacity (Nominal)	Cooling	HP	86.00	88.00	90.00	
				kW	240.80	246.60	252.00	
				Btu/h	821,600	841,400	859,900	
				kW	270.90	277.20	283.50	
Power	Current Input (Nominal)	MCA	Heating	Btu/h	924,300	945,800	967,300	
				kW	250.00	250.00	250.00	
				A	206.00	213.00	219.00	
				A	250.00	250.00	250.00	
COP	EER (Nominal Cooling)	COP (Nominal Heating)	Energy Grade	kW	64.31	66.09	68.11	
				kW	59.18	61.36	61.76	
				A	103.10	106.00	109.20	
				A	94.90	98.40	99.00	
Compressor	Type	Output	Model Name	A	206.00	213.00	219.00	
				A	250.00	250.00	250.00	
				A	206.00	213.00	219.00	
				A	250.00	250.00	250.00	
Fan	Type	Output x n	Air Flow Rate	-	3.74	3.73	3.70	
				-	4.58	4.52	4.59	
				-	-	-	-	
				-	-	-	-	
Piping Connections	Type	Output	Model Name	SSC Scroll x 6	(6.39x2) + (7.81x2)x2	(6.76x2) + (7.81x2)x2	SSC Scroll x 6	(7.81x2)x3
				DS-GB066FAVBx2 + DS4GJ5080FVAX4	DS-GB070FAVBx2 + DS4GJ5080FVAX4	DS4GJ5080FVAX6		
				PVE	PVE	PVE		
				PVE	PVE	PVE		
Field Wiring	Type	Transmission Cable	mm ²	Propeller	Propeller	Propeller		
				(620.0x2)x3	(620.0x2)x3	(620.0x2)x3		
				340.0x3	340.0x3	340.0x3		
				5,666.7x3	5,666.7x3	5,666.7x3		
Refrigerant	Type	Factory Charging	kg	mmAQ	8.00	8.00	8.00	
				Pa	78.45	78.45	78.45	
				Ø, mm	22.22	22.22	22.22	
				Ø, inch	7/8"	7/8"	7/8"	
Sound	Pressure	Power	dBA	Ø, mm	53.98	53.98	53.98	
				Ø, inch	2 1/8"	2 1/8"	2 1/8"	
				Ø, mm	-	-	-	
				Ø, inch	-	-	-	
External Dimension	Installation Limitation	Max. Length	Max. Height	m	200 (220)	200 (220)	200 (220)	
				m	110 (110)	110 (110)	110 (110)	
Operating Temp.	Cooling	Heating	°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	
				-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	

* Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;

- Indoor temperature : 27°C DB, 19°C WB

- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

2) Nominal heating capacities are based on;

- Indoor temperature : 20°C DB, 15°C WB

- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

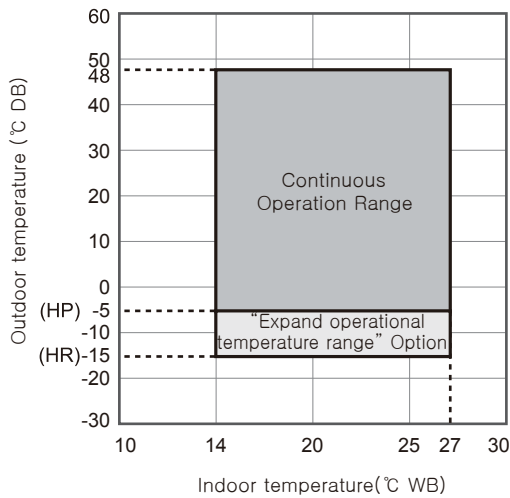
4) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.

(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.)

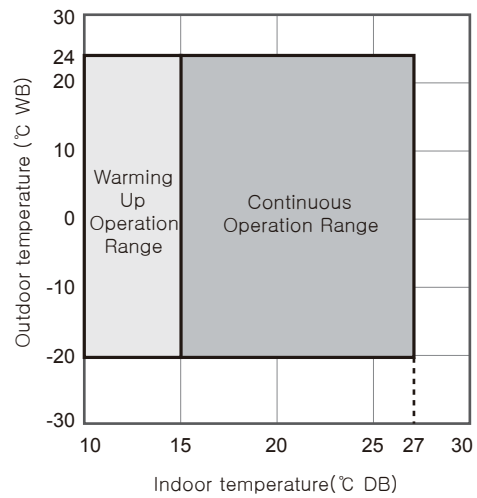
*PDM kit: Pressure Drop Modulation kit

3 Operation limit

Cooling



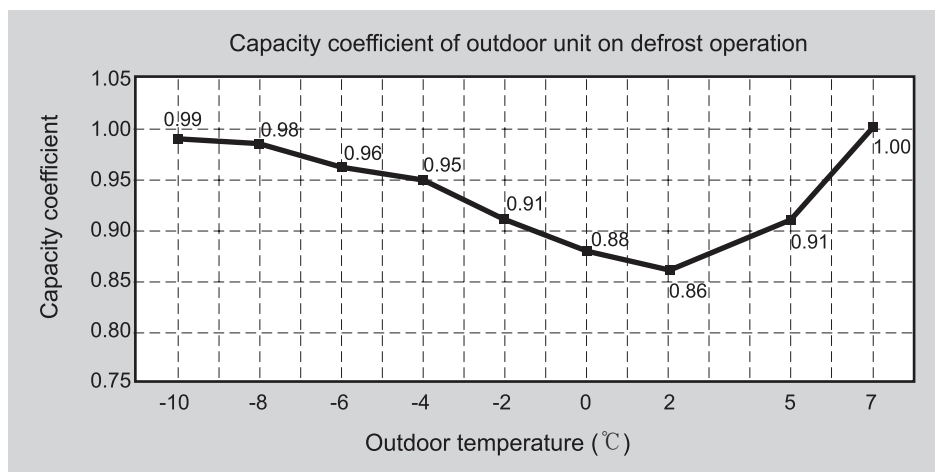
Heating



Defrosting correction factor

Outdoor temperature (°C, DB)	-10	-8	-6	-4	-2	0	2	5	7
Capacity coefficient	0.99	0.98	0.96	0.95	0.91	0.88	0.86	0.91	1.00

Corrected Heating Capacity = Heating Capacity X Capacity Coefficient



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.

4 Dimensional drawing

Outdoor

AM140KXVAGH/TK, AM160KXVAGH/TK, AM180KXVAGH/TK, AM200KXVAGH/TK, AM220KXVAGH/TK

Units : mm / inches

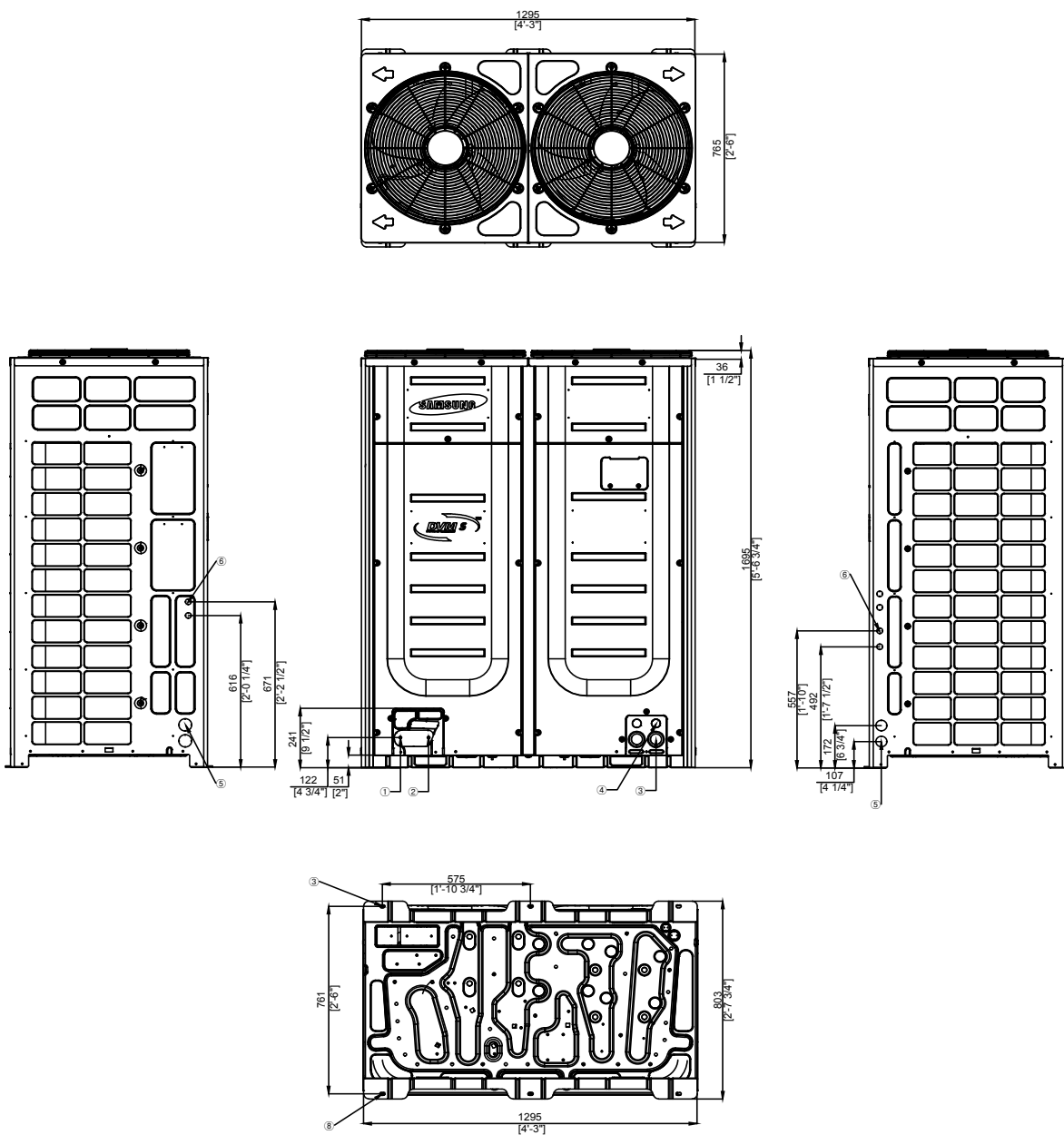


Table of descriptions

1	Gas Ref. pipe	7	Knock-out Hole for Ref. Piping
2	Liquid Ref. pipe	8	Anchor Bolt Hole
3	Power wiring conduit	9	
4	Communication wiring conduit	10	
5	Power wiring conduit	11	
6	Communication wiring conduit	12	

4 Dimensional drawing

Outdoor

AM240KXVAGH/TK, AM260KXVAGH/TK, AM280KXVAGH/TK, AM300KXVAGH/TK

Units : mm / inches

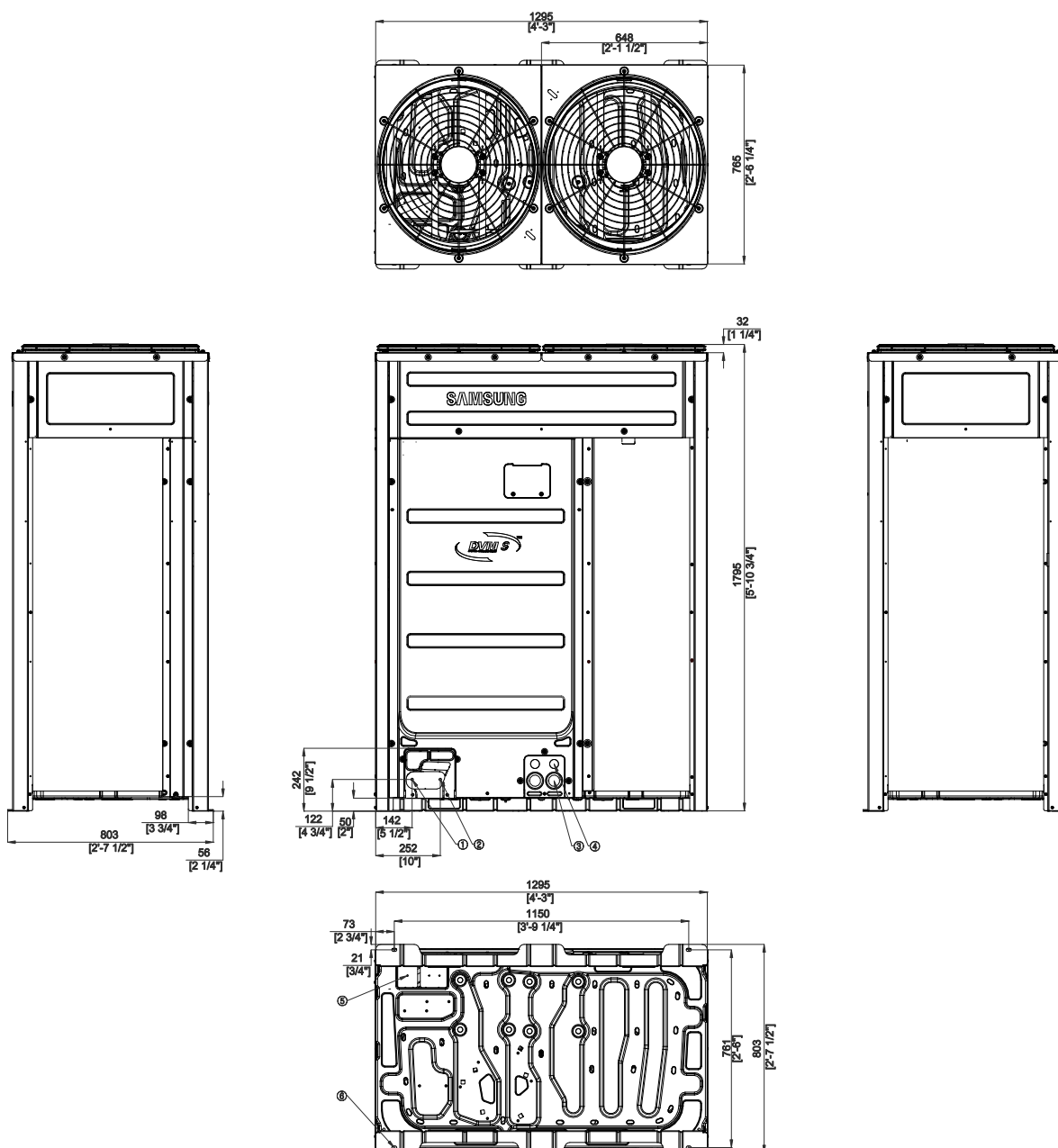


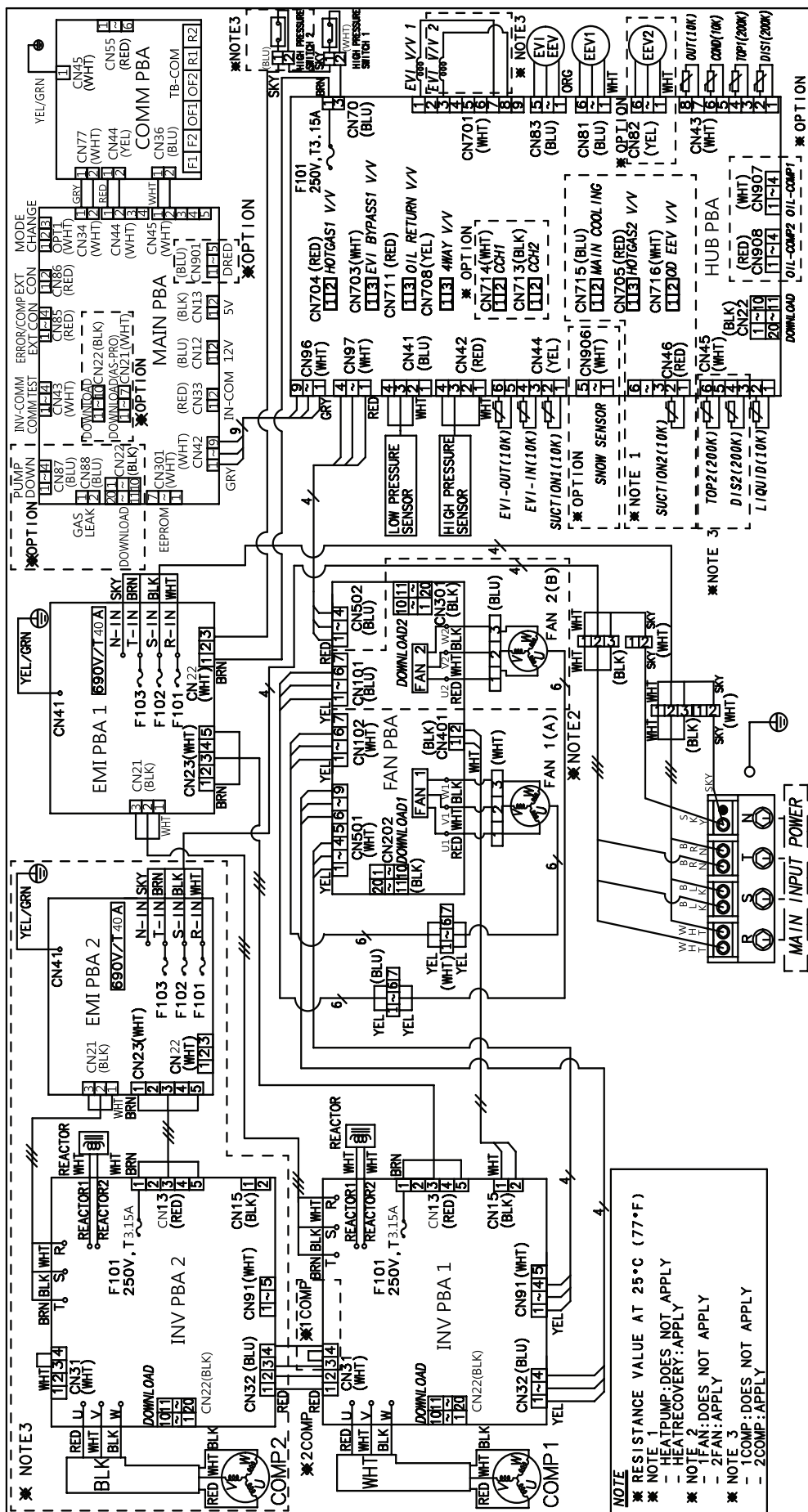
Table of descriptions

1	Gas Ref. pipe	7	
2	Liquid Ref. pipe	8	
3	Power wiring conduit	9	
4	Communication wiring conduit	10	
5	Knock-out Hole for Ref. Piping	11	
6	Anchor Bolt Hole	12	

5

Outdoor

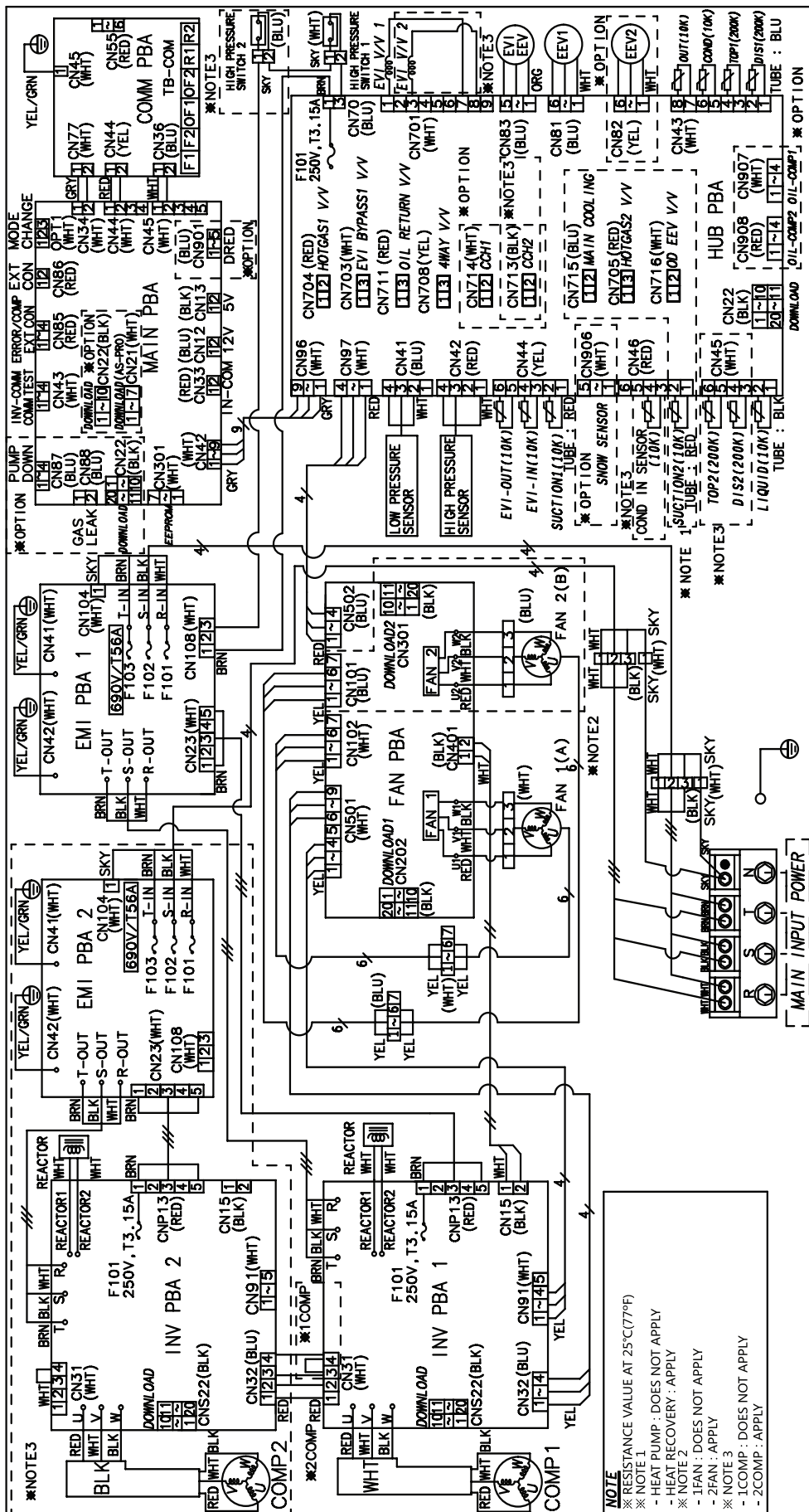
AM140KXVAGH/TK, AM200KXVAGH/TK, AM220KXVAGH/TK



5 Electrical wiring diagram

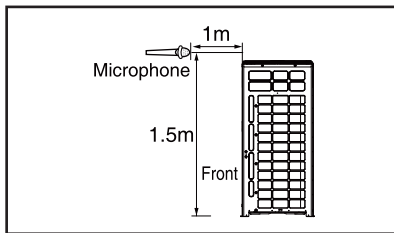
Outdoor

AM160KXVAGH/TK, AM180KXVAGH/TK, AM240KXVAGH/TK, AM260KXVAGH/TK, AM280KXVAGH/TK, AM300KXVAGH/TK



6 Sound pressure level

Outdoor



Unit: dB(A)	
Model	Cooling
AM140KXVAGH/TK	61
AM160KXVAGH/TK	63
AM180KXVAGH/TK	64
AM200KXVAGH/TK	65

Note

* Specifications may be subject to change without prior notice

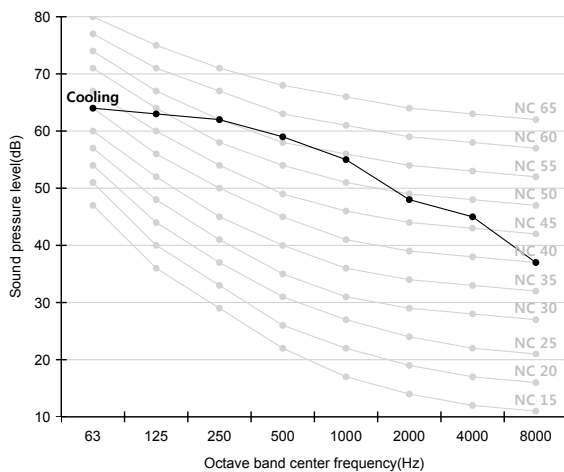
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room

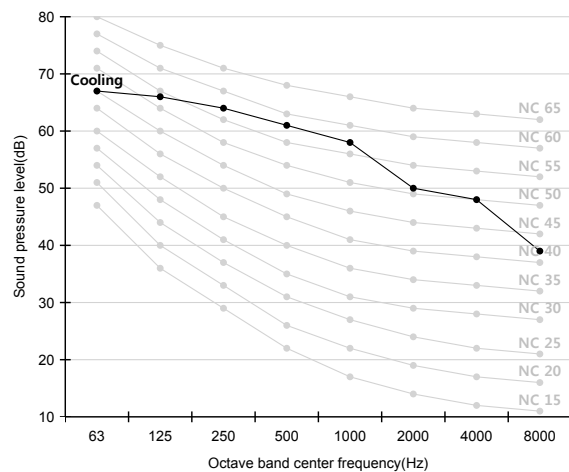
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

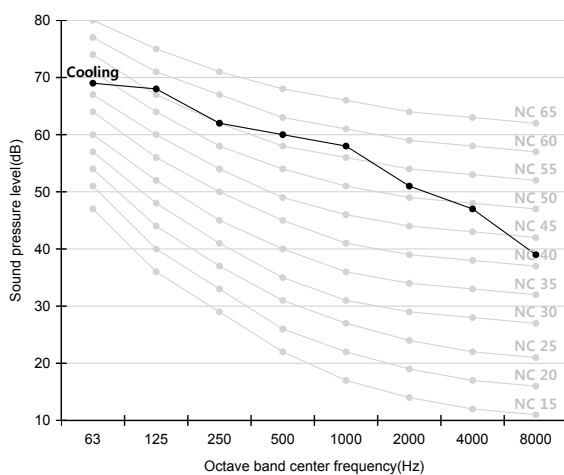
1) AM140KXVAGH/TK



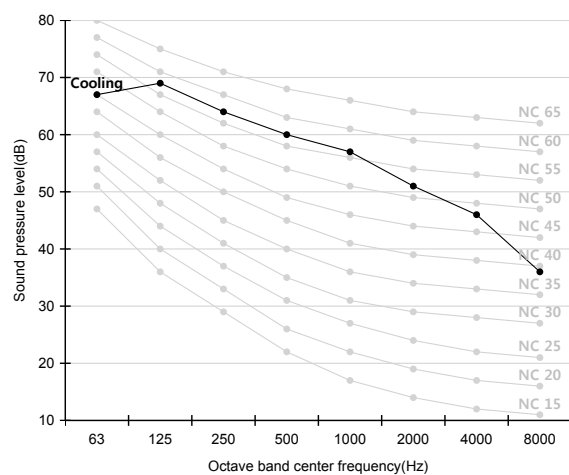
2) AM160KXVAGH/TK



3) AM180KXVAGH/TK

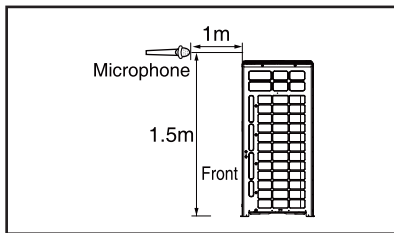


4) AM200KXVAGH/TK



6 Sound pressure level

Outdoor



Unit: dB(A)	
Model	Cooling
AM220KXVAGH/TK	65
AM240KXVAGH/TK	66
AM260KXVAGH/TK	66
AM280KXVAGH/TK	69

Note

* Specifications may be subject to change without prior notice

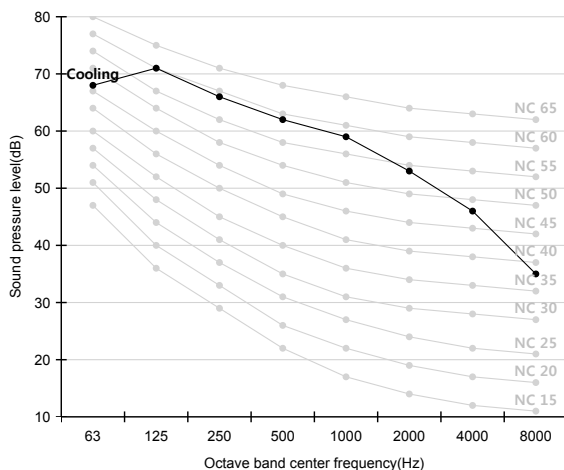
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room

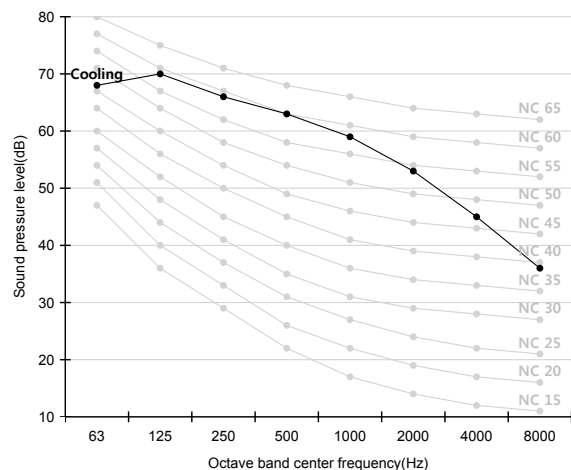
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

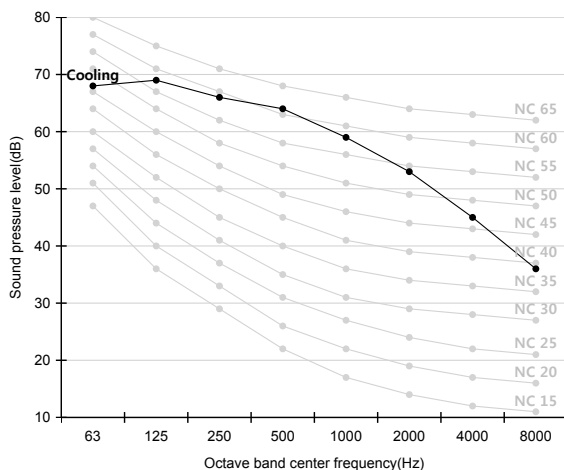
1) AM220KXVAGH/TK



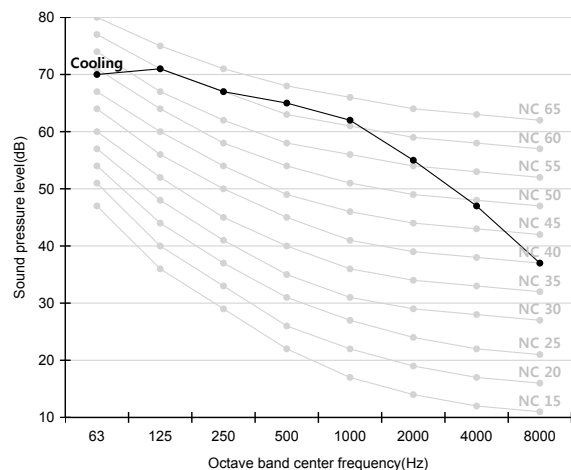
2) AM240KXVAGH/TK



3) AM260KXVAGH/TK

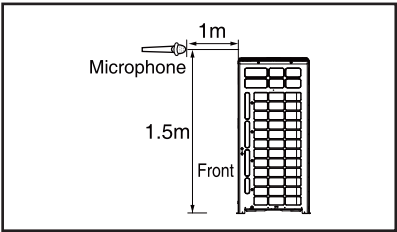


4) AM280KXVAGH/TK



6 Sound pressure level

Outdoor



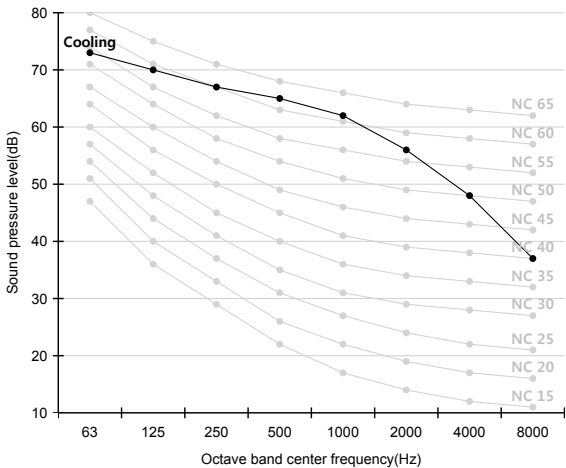
Unit: dB(A)	
Model	Cooling
AM300KXVAGH/TK	69

Note

- * Specifications may be subject to change without prior notice
- 1) These operation values were obtained in an anechoic room.
- 2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room
- 3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

1) AM300KXVAGH/TK



7 Sound power level

Outdoor

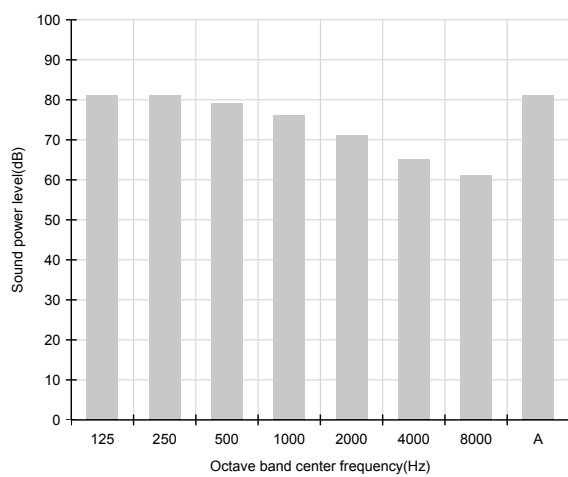
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

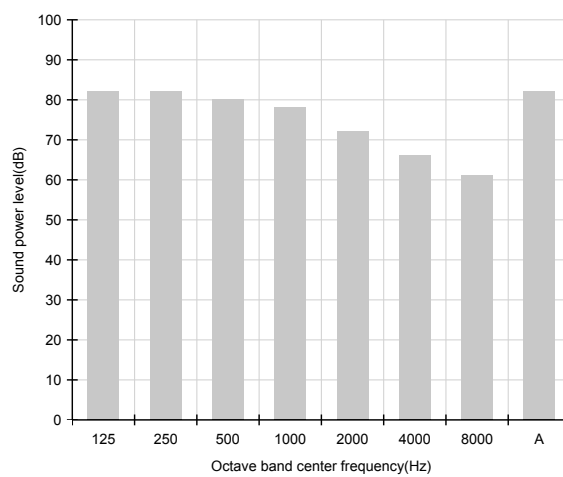
Unit: dB(A)

Model	Power
AM140KXVAGH/TK	81
AM160KXVAGH/TK	83
AM180KXVAGH/TK	84
AM200KXVAGH/TK	87

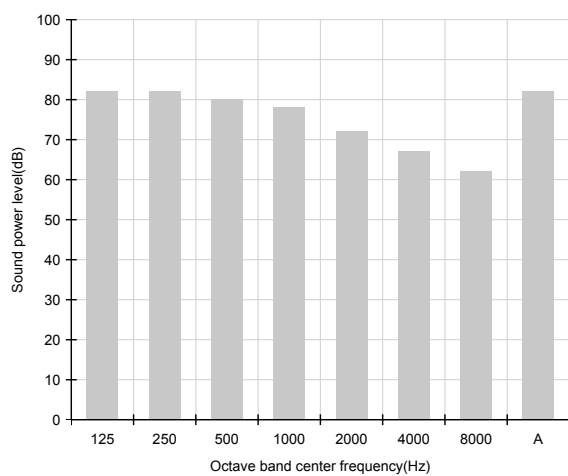
1)AM140KXVAGH/TK



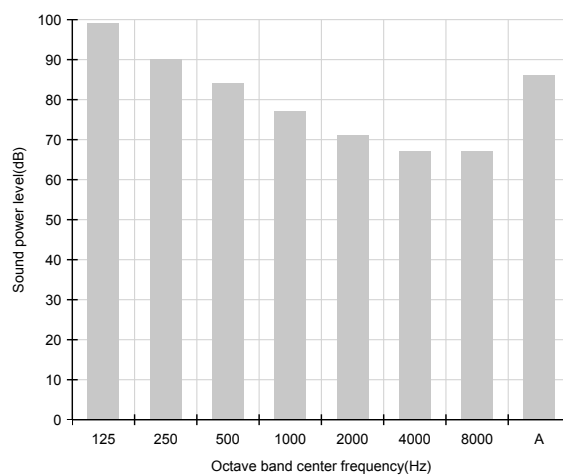
2)AM160KXVAGH/TK



3)AM180KXVAGH/TK



4)AM200KXVAGH/TK



7 Sound power level

Outdoor

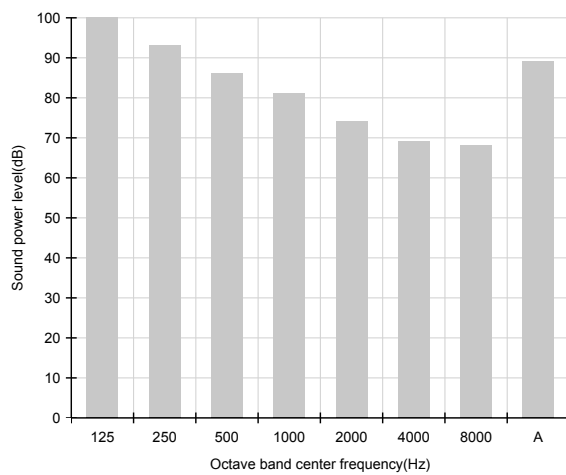
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
- 2) Reference power : 1pW.
- 3) Measured according to ISO 3741.

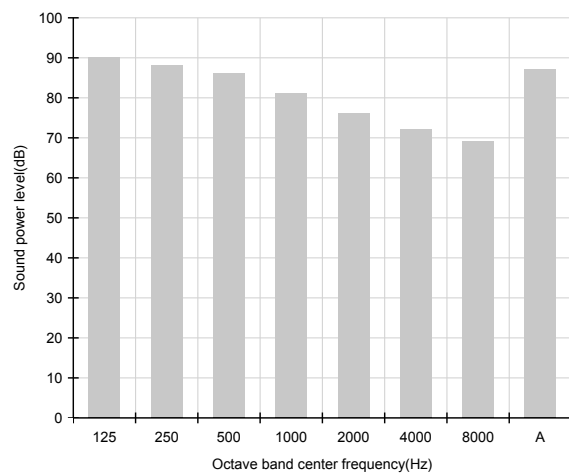
Unit: dB(A)

Model	Power
AM220KXVAGH/TK	89
AM240KXVAGH/TK	89
AM260KXVAGH/TK	89
AM280KXVAGH/TK	90

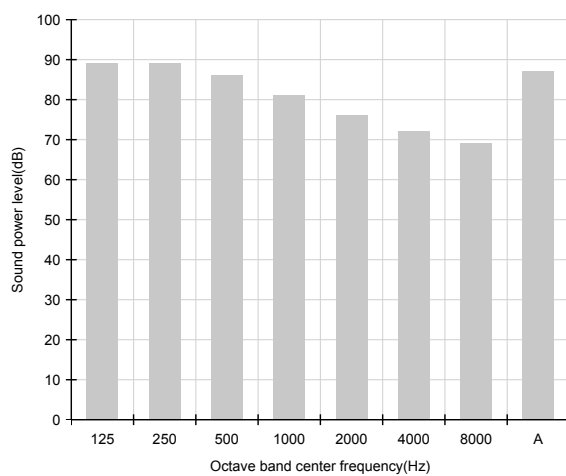
1)AM220KXVAGH/TK



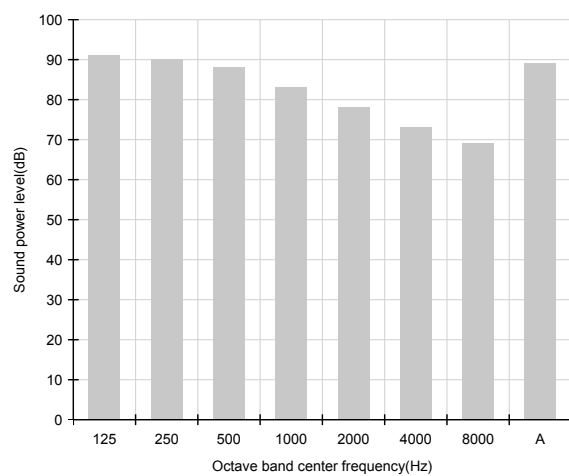
2)AM240KXVAGH/TK



3)AM260KXVAGH/TK



4)AM280KXVAGH/TK



7 Sound power level

Outdoor

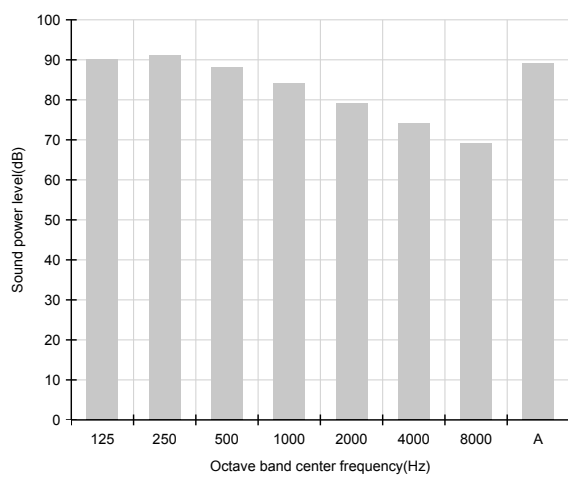
Note

- * Specifications may be subject to change
- 1) dBA = A-weighted sound power level.
 - 2) Reference power : 1pW.
 - 3) Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AM300KXVAGH/TK	90

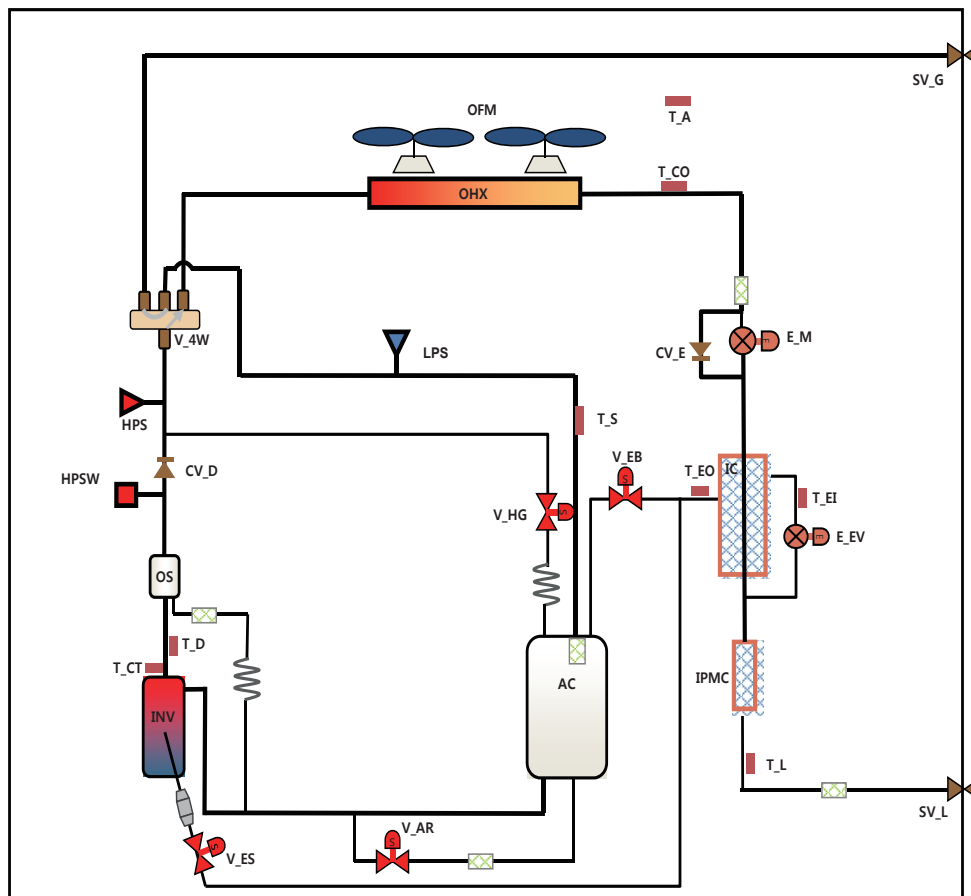
1)AM300KXVAGH/TK



8 Cycle diagram

Outdoor

AM140KXVAGH/TK, AM160KXVAGH/TK, AM180KXVAGH/TK



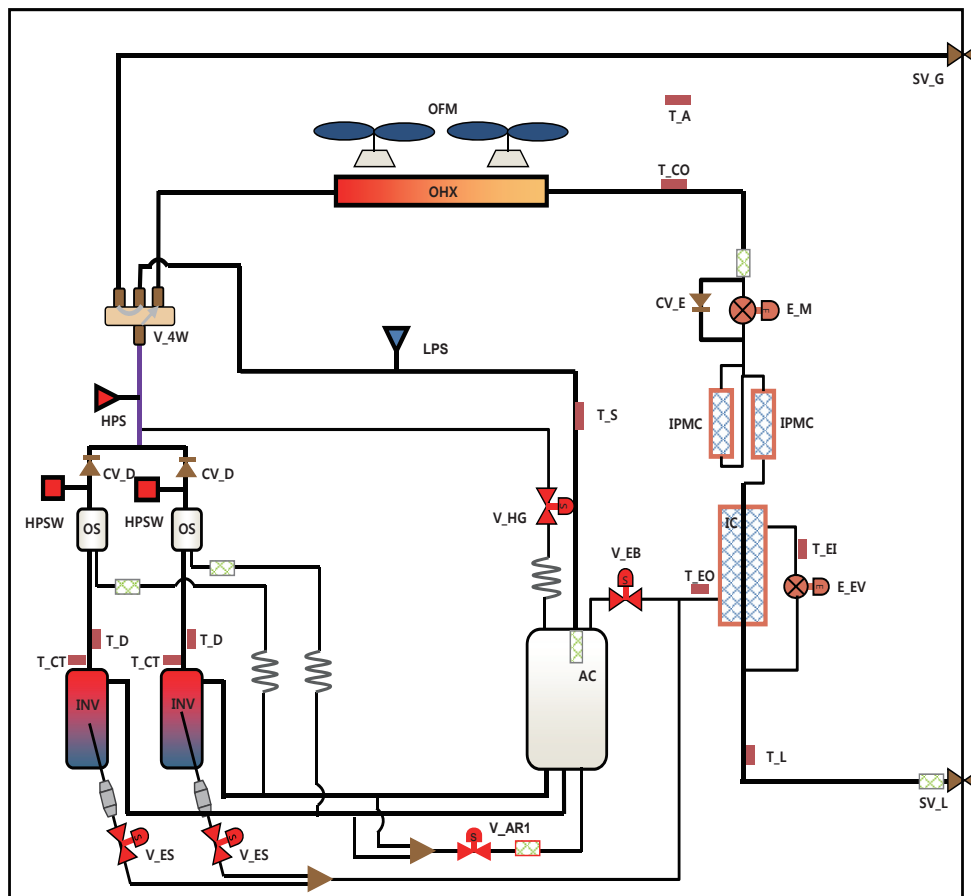
Abbreviation	Explanation
INV	Inverter Compressor
OFM	Outdoor Fan Motor
OHX	Outdoor Heat Exchanger
AC	Accumulator
OS	Oil Separator
IC	Intercooler
IPMC	IPM Cooler
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
HPSW	High Pressure Switch
E_M	Main EEV
E_EV	EVI EEV
V_ES	EVI Sol. Valve
V_EB	EVI Bypass Valve
V_HG	Hot Gas Bypass Valve
V_4W	4Way Valve

Abbreviation	Explanation
V_AR	Accumulator Oil Return Valve
CV_E	EEV Bypass Check Valve
CV_D	Discharge Check Valve
T_D	Discharge Temp. Sensor
T_S	Suction Temp. Sensor
T_CO	Cond Out Temp. Sensor
T_EI	EVI In Temp. Sensor
T_EO	EVI Out Temp. Sensor
T_L	Liquid Tube Temp. Sensor
T_CT	Comp. Top Temp. Sensor
T_A	Ambient Temp. Sensor
SV_G	Gas Pipe Service Valve
SV_L	Liquid Pipe Service Valve

8 Cycle diagram

Outdoor

AM200KXVAGH/TK, AM220KXVAGH/TK



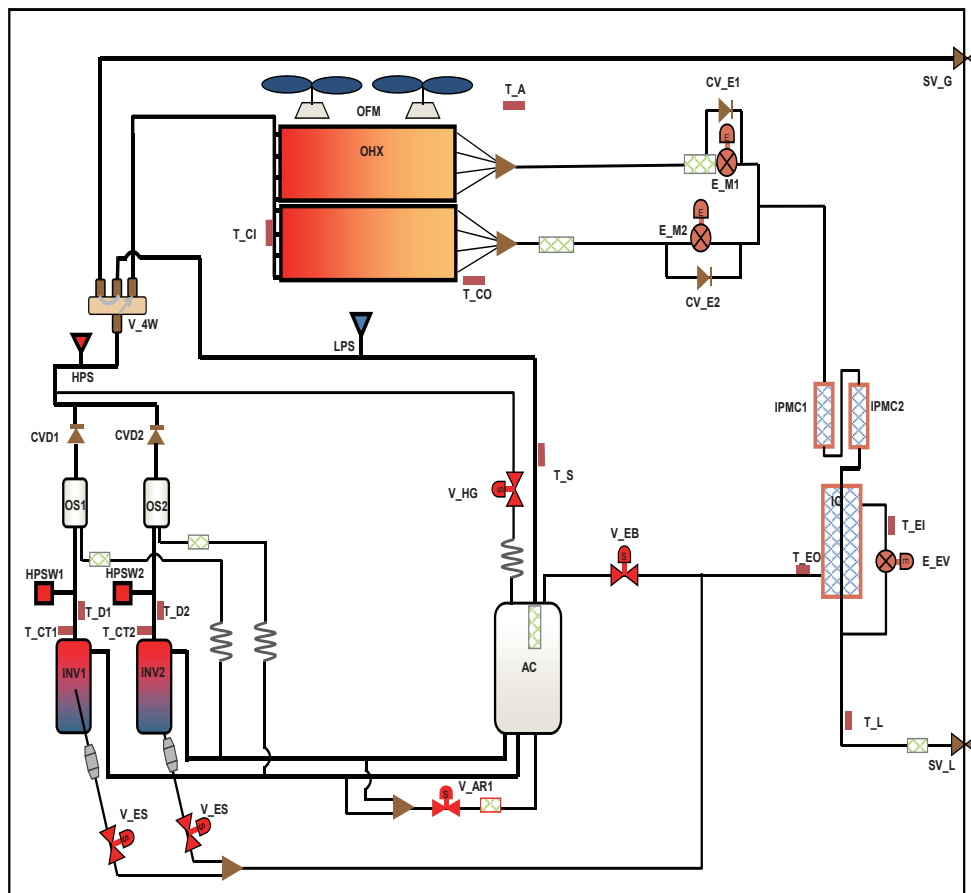
Abbreviation	Explanation
INV1	Inveter Compressor
INV2	Inveter Compressor
OFM	Outdoor Fan Motor
OHX	Outdoor Heat Exchanger
AC	Accumulator
OS	Oil Separator
IC	Intercooler
IPMC	IPM Cooler
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
HPSW	High Pressure Switch
E_M	Main EEV
E_EV	EVI EEV
V_ES	EVI Sol. Valve
V_EB	EVI Bypass Valve
V_HG	Hot Gas Bypass Valve

Abbreviation	Explanation
V_4W	4Way Valve
V_AR	Accumulator Oil Return Valve
CV_E	EEV Bypass Check Valve
CV_D	Discharge Check Valve
T_D	Discharge Temp. Sensor
T_S	Suction Temp. Sensor
T_CO	Cond Out Temp. Sensor
T_EI	EVI In Temp. Sensor
T_EO	EVI Out Temp. Sensor
T_L	Liquid Tube Temp. Sensor
T_CT	Comp. Top Temp. Sensor
T_A	Ambient Temp. Sensor
SV_G	Gas Pipe Service Valve
SV_L	Liquid Pipe Service Valve

8 Cycle diagram

Outdoor

AM240KXVAGH/TK, AM260KXVAGH/TK



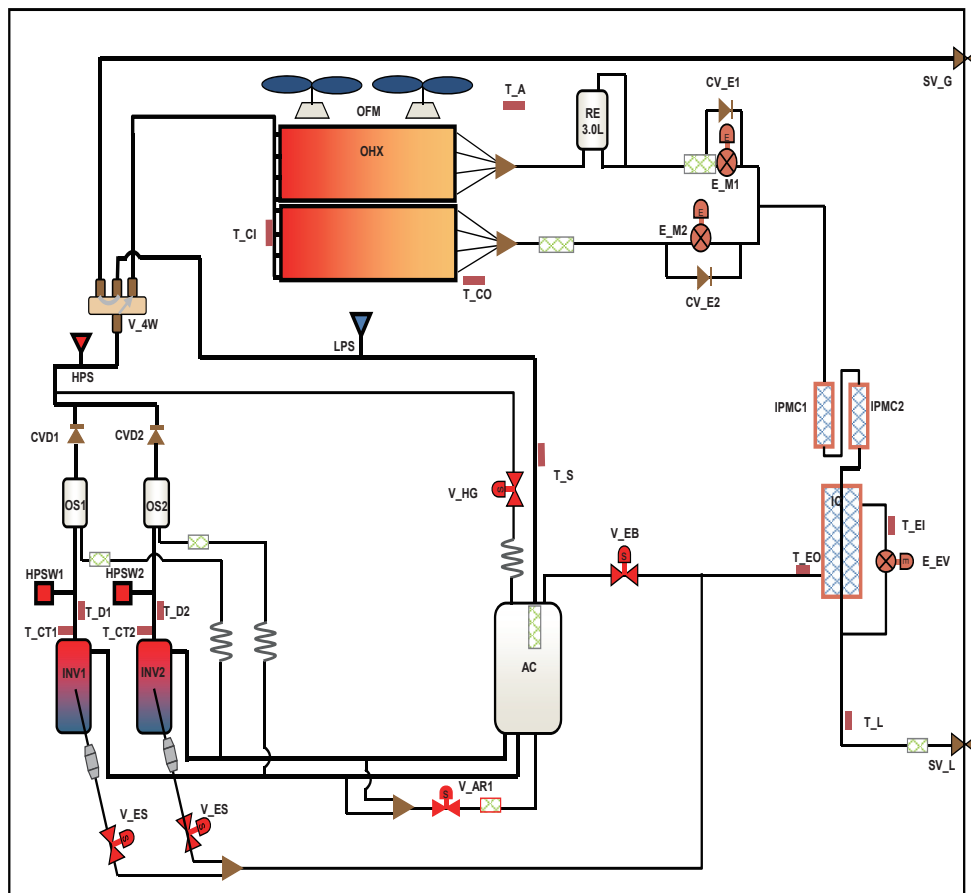
Abbreviation	Explanation
INV1	Inveter Compressor
INV2	Inveter Compressor
OFM	Outdoor Fan Motor
OHX	Outdoor Heat Exchanger
AC	Accumulator
OS	Oil Separator
IC	Intercooler
IPMC	IPM Cooler
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
HPSW	High Pressure Switch
E_M	Main EEV
E_EV	EVI EEV
V_ES	EVI Sol. Valve
V_EB	EVI Bypass Valve
V_HG	Hot Gas Bypass Valve

Abbreviation	Explanation
V_4W	4Way Valve
V_AR	Accumulator Oil Return Valve
CV_E	EEV Bypass Check Valve
CV_D	Discharge Check Valve
T_D	Discharge Temp. Sensor
T_S	Suction Temp. Sensor
T_CO	Cond Out Temp. Sensor
T_EI	EVI In Temp. Sensor
T_EO	EVI Out Temp. Sensor
T_L	Liquid Tube Temp. Sensor
T_CT	Comp. Top Temp. Sensor
T_A	Ambient Temp. Sensor
SV_G	Gas Pipe Service Valve
SV_L	Liquid Pipe Service Valve

8 Cycle diagram

Outdoor

AM280KXVAGH/TK, AM300KXVAGH/TK



Abbreviation	Explanation
INV1	Inveter Compressor
INV2	Inveter Compressor
OFM	Outdoor Fan Motor
OHX	Outdoor Heat Exchanger
AC	Accumulator
OS	Oil Separator
IC	Intercooler
IPMC	IPM Cooler
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
HPSW	High Pressure Switch
E_M	Main EEV
E_EV	EVI EEV
V_ES	EVI Sol. Valve
V_EB	EVI Bypass Valve
V_HG	Hot Gas Bypass Valve

Abbreviation	Explanation
V_4W	4Way Valve
V_AR	Accumulator Oil Return Valve
CV_E	EEV Bypass Check Valve
CV_D	Discharge Check Valve
T_D	Discharge Temp. Sensor
T_S	Suction Temp. Sensor
T_CO	Cond Out Temp. Sensor
T_EI	EVI In Temp. Sensor
T_EO	EVI Out Temp. Sensor
T_L	Liquid Tube Temp. Sensor
T_CT	Comp. Top Temp. Sensor
T_A	Ambient Temp. Sensor
SV_G	Gas Pipe Service Valve
SV_L	Liquid Pipe Service Valve

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