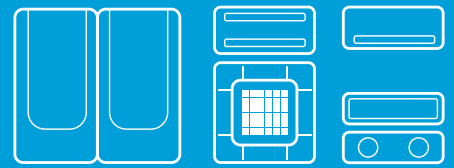


# VRF

## Technical Data Book

DVM S for SOUTH AMERICA  
(460V, R410A, 60Hz, HP)



Model : AM \*\*\* JXVAJH

# Nomenclature

## Outdoor Units

### Model Names

<b>AM</b>	<b>080</b>	<b>J</b>	<b>X</b>	<b>V</b>	<b>A</b>	<b>J</b>	<b>H</b>	/	<b>AZ</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

### (1) Classification

AM	DVM
----	-----

### (2) Capacity

x 1/10 HP (3 digits)
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### (3) Version

F	2013
H	2014
J	2015

### (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

### (7) Rating Voltage

F	3Ø, 208~230V, 60Hz
J	3Ø, 460V, 60Hz

### (8) Mode

H	Heat Pump
R	Heat Recovery

# 2 Specifications

## Outdoor

Type			DVM S(NEW)	DVM S(NEW)	DVM S(NEW)	DVM S(NEW)	
Model Name			AM160JXVAJH/AZ	AM180JXVAJH/AZ	AM200JXVAJH/AZ	AM220JXVAJH/AZ	
Power Supply			Ø, #, V, Hz	3,3,460,60	3,3,460,60	3,3,460,60	
Mode			-	HP	HP	HP	
Performance	Ton	TON	12.79	14.33	15.92	17.52	
		kW	44.99	50.41	56.01	61.60	
	Capacity (Nominal)	Cooling	Btu/h	153,500	172,000	191,100	210,200
			US RT	12.79	14.33	15.92	17.52
		Heating	kW	50.41	56.71	63.01	69.31
			Btu/h	172,000	193,500	215,000	236,500
US RT	14.33	16.13	17.92	19.71			
Power	Power Input	Cooling	kW	10.64	10.66	11.45	15.35
		Heating		10.30	10.40	12.70	15.80
	Current Input	Cooling	A	14.80	14.90	16.00	21.40
		Heating		14.40	14.50	17.70	22.00
	MCA	-	28.10	33.80	41.80	46.00	
	MFA	-	40.00	50.00	63.00	63.00	
COP	EER (Nominal Cooling)		-	4.23	4.73	4.89	4.01
	EER (Nominal Heating, US)		-	14.40	16.10	16.70	13.70
	COP (Nominal Heating, US)		-	4.89	5.45	4.96	4.39
	Energy Grade		-	-	-	-	-
Compressor	Type		-	SSC Scroll x 2	SSC Scroll x 2	SSC Scroll x 2	SSC Scroll x 2
	Output		kW x n	(4.39 x 2)	(6.39 x 2)	(6.39 x 2)	(6.39 x 2)
	Model Name		-	DS-GA046FAVASGx2	DS4GJ5066EVASGx2	DS-GB066FAVBGSx2	DS-GB066FAVBGSx2
	Oil	Type	-	PVE	PVE	PVE	PVE
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Output x n		W	620x2	620x2	620x2	620x2
	Air Flow Rate		CFM	9,005.6	9,182.2	9,358.7	10,241.6
	External Static Pressure	Max.	Pa	78.40	78.40	78.40	78.40
In Wg			0.31	0.31	0.31	0.31	
Piping Connections	Liquid Pipe	Ø, mm	12.70	15.88	15.88	15.88	
		Ø, inch	1/2"	5/8"	5/8"	5/8"	
	Gas Pipe	Ø, mm	28.58	28.58	28.58	28.58	
		Ø, inch	1 1/8"	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)	200 (220)
			ft	656 (722)	656 (722)	656 (722)	656 (722)
Max. Height		m	110 (110)	110 (110)	110 (110)	110 (110)	
		ft	361 (361)	361 (361)	361 (361)	361 (361)	
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Factory Charging		kg	7.70	8.40	8.40	8.40
Sound	Pressure		lbs	16.98	18.52	18.52	18.52
	Power		dB(A)	63	64	65	66
External Dimension	Net Weight	kg	281.0	303.0	303.0	303.0	
		lbs	619.50	668.00	668.00	668.00	
	Shipping Weight	kg	300.0	322.0	322.0	322.0	
		lbs	661.39	709.89	709.89	709.89	
	Net Dimensions (WxHxD)	mm	1,295x1,695x765	1,295x1,695x765	1,295x1,695x765	1,295x1,695x765	
		inch	50.98x66.73x30.12	50.98x66.73x30.12	50.98x66.73x30.12	50.98x66.73x30.12	
	Shipping Dimensions (WxHxD)	mm	1,363x1,887x832	1,363x1,887x832	1,363x1,887x832	1,363x1,887x832	
		inch	53.66x74.29x32.76	53.66x74.29x32.76	53.66x74.29x32.76	53.66x74.29x32.76	
Operating Temp. Range	Cooling	°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	
		°F	23.0 ~ 118.4	23.0 ~ 118.4	23.0 ~ 118.4	23.0 ~ 118.4	
	Heating	°C	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	-25.0 ~ 24.0	
		°F	-13.0 ~ 75.2	-13.0 ~ 75.2	-13.0 ~ 75.2	-13.0 ~ 75.2	

1) Nominal cooling capacities are based on;

Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, 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, Refrigerant piping : 7.5m, Level differences : 0m

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

- Specifications may be subject to change without prior notice.

- 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.

# / Dimensional drawing

## Outdoor

AM140JXVAJH/AZ, AM160JXVAJH/AZ, AM180JXVAJH/AZ, AM200JXVAJH/AZ, AM220JXVAJH/AZ

Units : mm / inches

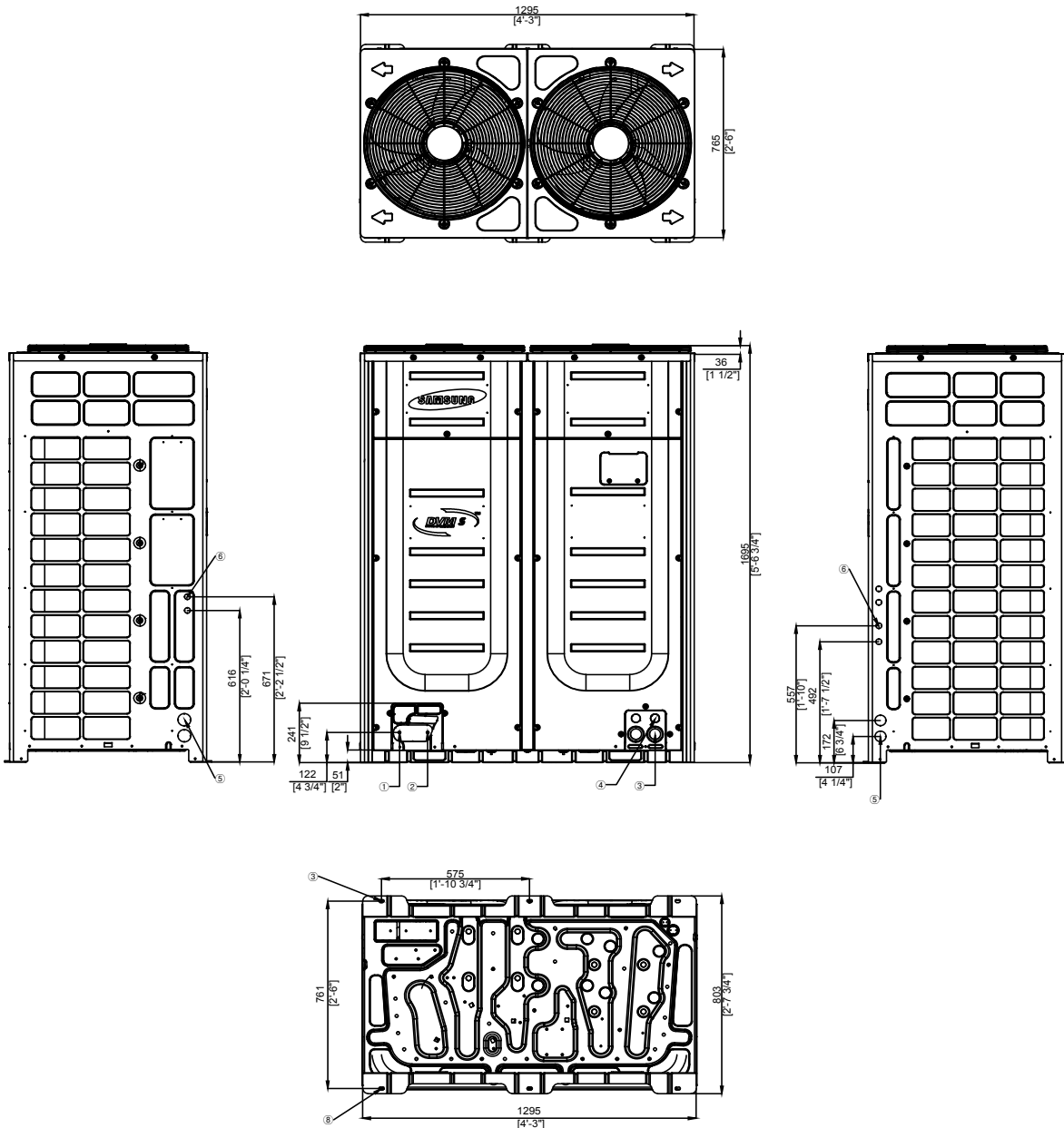


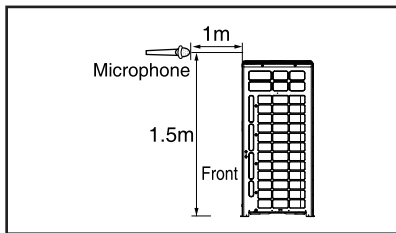
Table of descriptions

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	



# ↑ Sound pressure level

## Outdoor



Unit: dB(A)

Model	Pressure
AM160JXVAJH/AZ	63
AM180JXVAJH/AZ	64
AM200JXVAJH/AZ	65
AM220JXVAJH/AZ	66

### Note

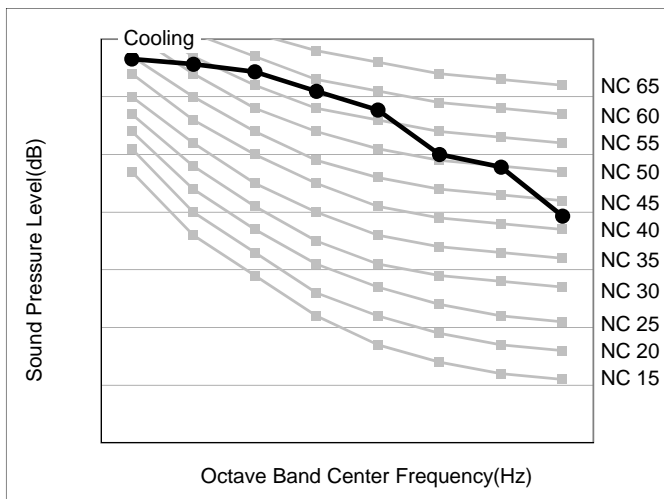
Measuring place: Anechoic chamber (conversion value)

These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a factors such as the construction of the particular room where the equipment is installed.

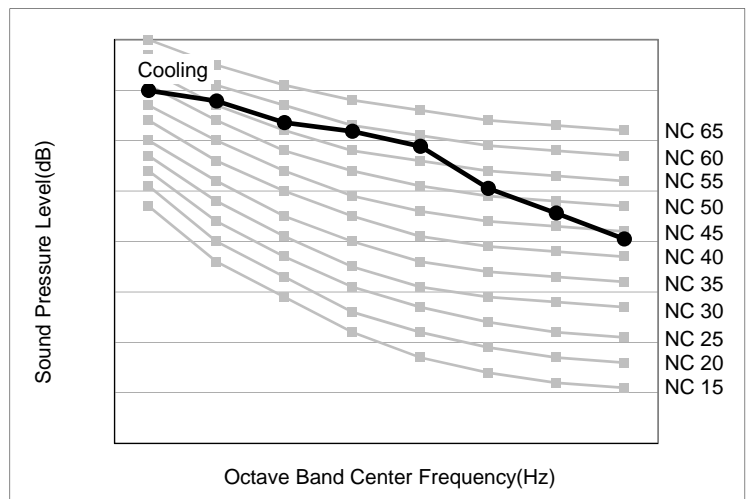
Operation sound level may differ depending on operation and ambient conditions.

## NC curve

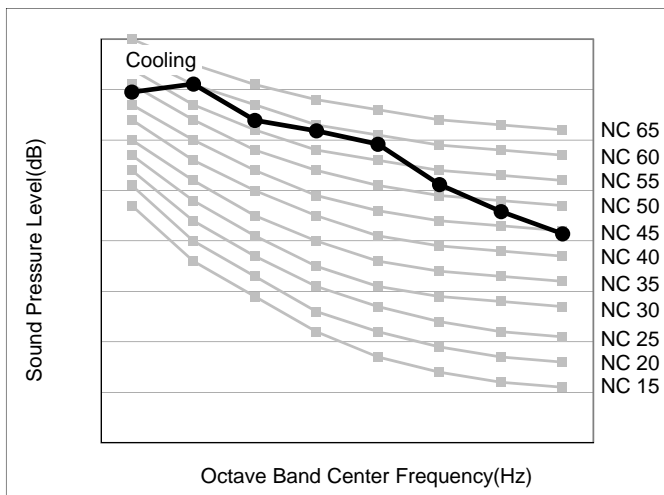
### 1) AM160JXVAJH/AZ



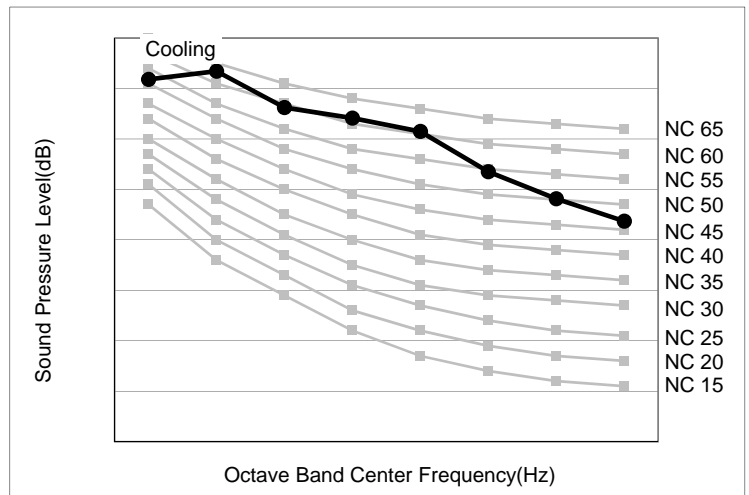
### 2) AM180JXVAJH/AZ



### 3) AM200JXVAJH/AZ



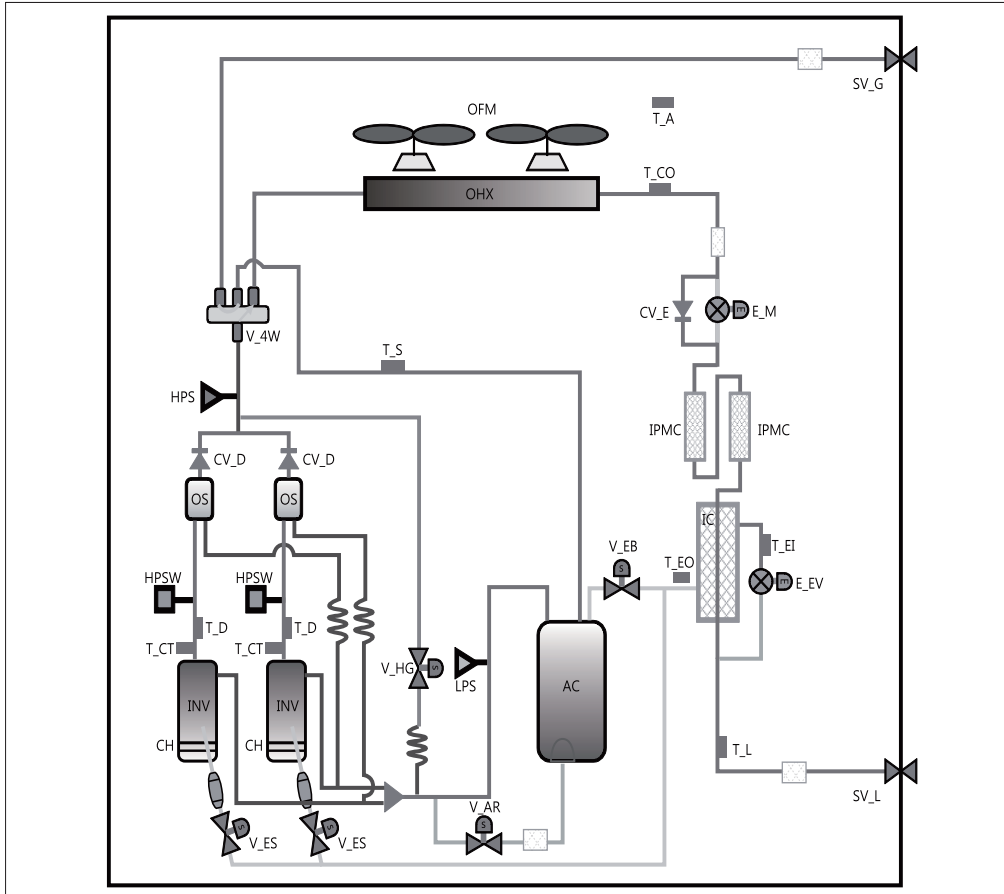
### 4) AM220JXVAJH/AZ



# i Cycle diagram

## Outdoor

AM140JXVAJH/AZ, AM160JXVAJH/AZ, AM180JXVAJH/AZ, AM200JXVAJH/AZ, AM220JXVAJH/AZ



Classification	Description
INV	Inverter Compressor
OFM	Outdoor Fan Motor
OHX	Outdoor Heat Exchanger
AC	Accumulator
OS	Oil Separator
IC	Intercooler
IPMC	IPM Cooler
CH	Crank Case Heater
HPS	High Pressure Sensor
LPS	Low Pressure Sensor
HPSW	High Pressure Switch
E_M	Main EEV
E_EV	EVI EEV
V_ES	EVI Solenoid Valve
V_EB	EVI Bypass Valve

Classification	Description
V_HG	Hot Gas Bypass Valve
V_4W	4way Valve
V_AR	Accumulator Oil Return Valve
CV_E	EEV Bypass Check Valve
CV_D	Discharge Check Valve
T_D	Discharge Temperature Sensor
T_S	Suction Temperature Sensor
T_CO	Condenser Out Temperature Sensor
T_EI	EVI In Temperature Sensor
T_EO	EVI Out Temperature Sensor
T_L	Liquid Tube Temperature Sensor
T_CT	Compressor Top Temperature Sensor
T_A	Ambient Temperature Sensor
SV_G	Gas Pipe Service Valve
SV_L	Liquid Pipe Service Valve

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**Samsung Electronics Co., LTD.**  
**B2B PM / SE**

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 443-742  
Website : [www.samsung.com](http://www.samsung.com) Email : [airconditioner@samsung.com](mailto:airconditioner@samsung.com)  
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