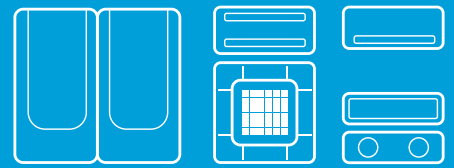


VRF

Technical Data Book

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



Model : AM *** JXVAJH

Nomenclature

Outdoor Units

Model Names

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

(1) Classification

| | |
|----|-----|
| AM | DVM |
|----|-----|

(2) Capacity

| |
|----------------------|
| x 1/10 HP (3 digits) |
|----------------------|

(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 | Cooling | 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) | | - | 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

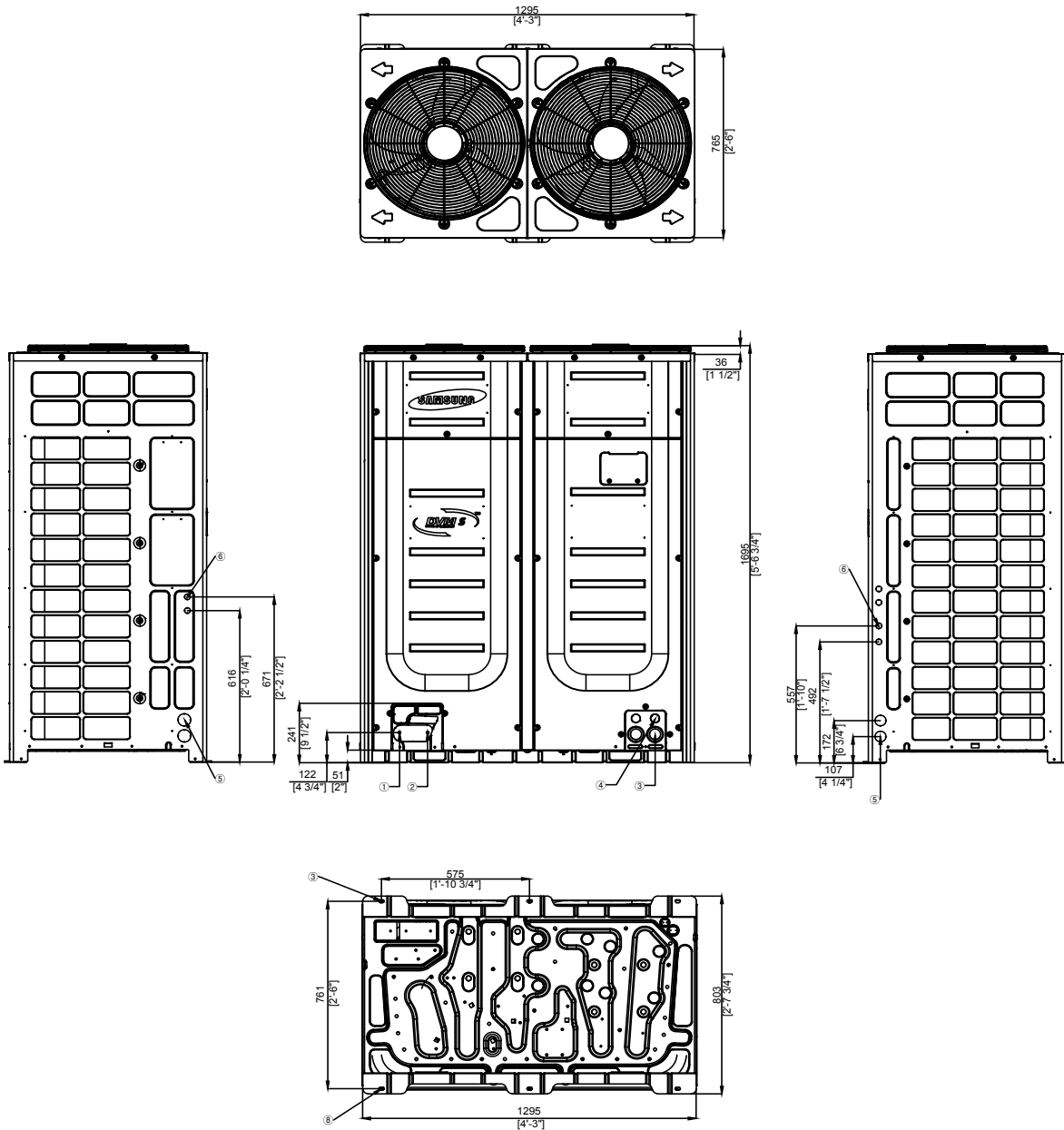
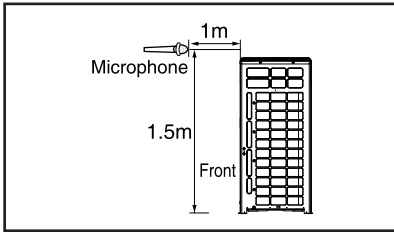


Table of descriptions

| | | | |
|---|------------------------------|----|--------------------------------|
| 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

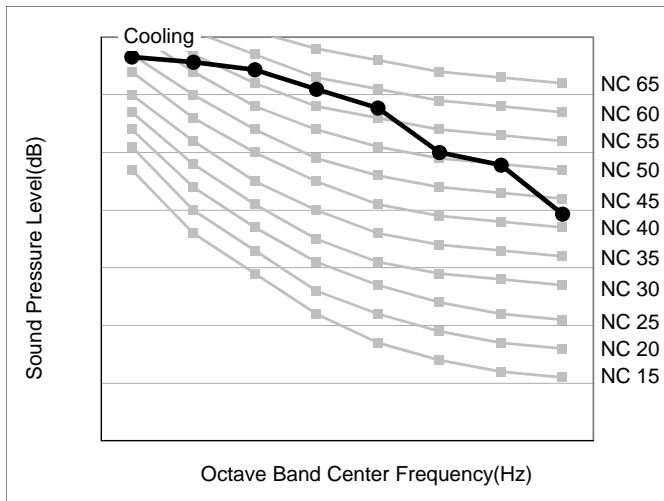
Measuring place: Anechoic chamber (conversion value)

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.

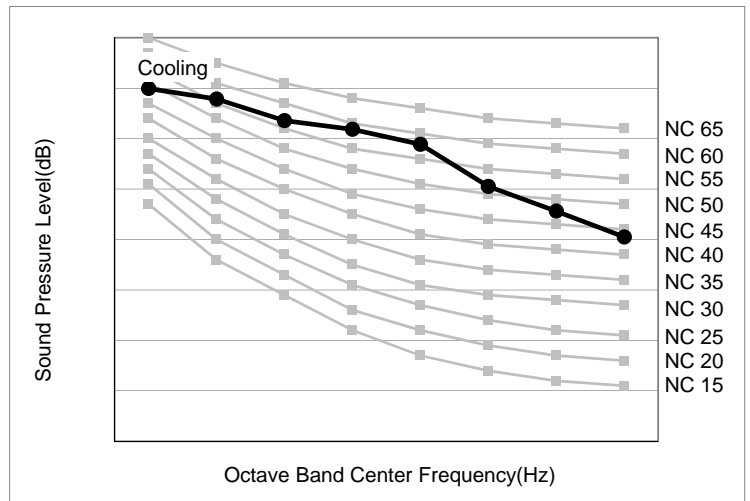
Operation sound level may differ depending on operation and ambient conditions.

NC curve

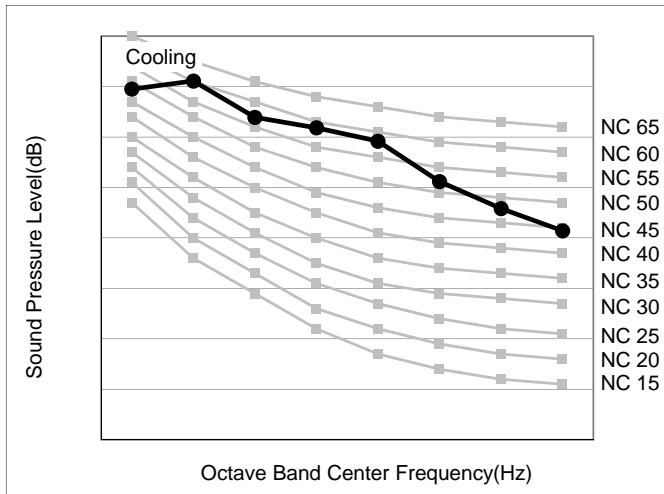
1) AM160JXVAJH/AZ



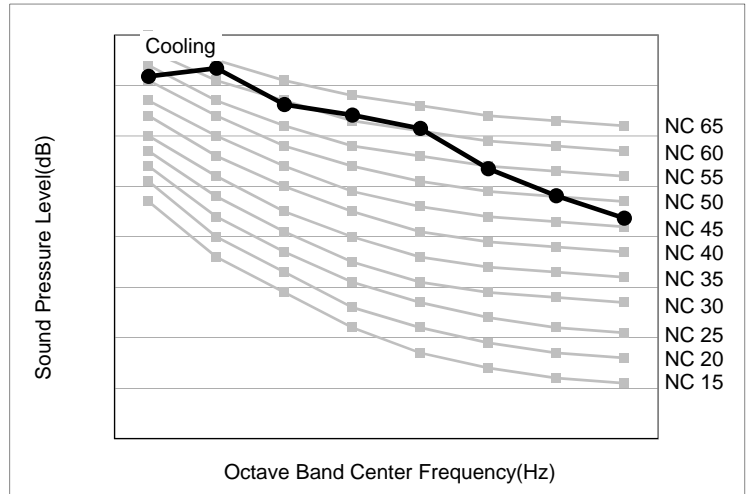
2) AM180JXVAJH/AZ



3) AM200JXVAJH/AZ



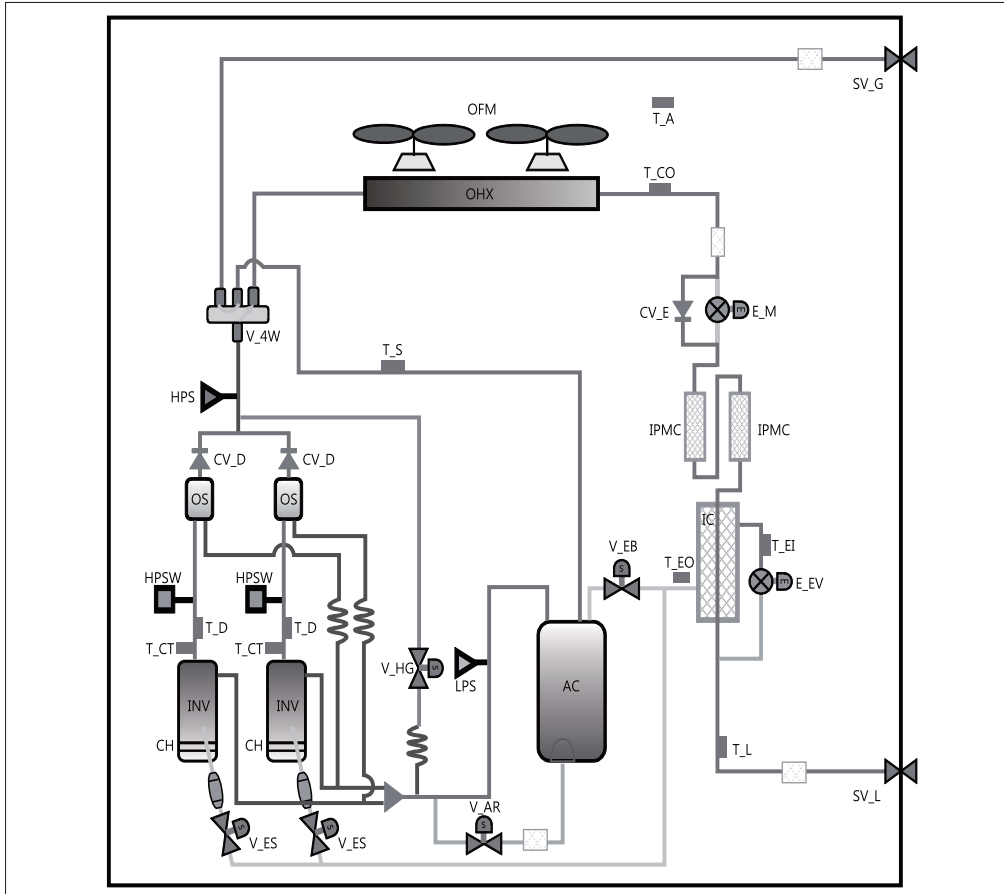
4) AM220JXVAJH/AZ



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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