

VRF

Technical Data Book

DVM S Standard for South West Asia



Model : HP (AM***KXVANH/TL & AM***JXVANH/TL)

Nomenclature

Outdoor Units

Model Names

| | | | | | | | | | |
|-----------|------------|----------|----------|----------|----------|----------|----------|---|-----------|
| AM | 240 | K | X | V | A | N | H | / | TL |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | Buyer |

(1) Classification

| | |
|----|-----|
| AM | VRF |
|----|-----|

(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 |
| H | High EER |

(7) Rating Voltage

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

(8) Mode

| | |
|---|---------------|
| H | Heat Pump |
| R | Heat Recovery |

2 Specifications

Outdoor

| Type | | | DVM S(NEW) | DVM S(NEW) | DVM S(NEW) | |
|--------------------|-----------------------------|-------------|-------------------|-------------------|-------------------|-----------------|
| Model Name | | | AM260KXVANH/TL | AM280KXVANH/TL | AM300KXVANH/TL | |
| Power Supply | | Ø, #, V, Hz | 3,4,380-415,50/60 | 3,4,380-415,50/60 | 3,4,380-415,50/60 | |
| Mode | | | HP | HP | HP | |
| Performance | HP | | 26.00 | 28.00 | 30.00 | |
| | | | kW | 72.80 | 78.60 | 84.00 |
| | Capacity (Nominal) | Cooling | Btu/h | 248,400 | 268,200 | 286,600 |
| | | | kW | 81.90 | 88.20 | 94.50 |
| | | Heating | 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 |
| 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 | | | 78.40 | 78.40 | 78.40 | |
| 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 (40) | 110 (40) | 110 (40) | |
| Field Wiring | Power Source Wire | | mm ² | - | - | - |
| | Transmission Cable | | mm ² | 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.

* The nominal cooling operating range is "-5 ~ 48".

But the cooling operating range can be widen down to -20 in case of below conditions satisfy.

- 1) The combination ratio must be more than 100%.
- 2) The wind prevent duct must be installed to prevent subcooling from cold wind like 87page drawings.
- 3) The indoor heat load must be generate consistently.

* Nominal capacities are based on;

- 1) Cooling : IDU(27°C DB, 19°C WB), ODU(35°C DB, 24°C WB)
- 2) Heating : IDU(20°C DB, 15°C WB), ODU(7°C DB, 6°C WB)
- 3) Equivalent refrigerant piping : 7.5m, Level differences : 0m

* These products contain R410A which is fluorinated greenhouse gas.

4 Dimensional drawing

Outdoor

OR G ES'YXOPPVŠ OR G ES'YXOPPVŠ, OR G ES'YXOPPVŠ, OR HES'YXOPPVŠ

Units : mm / inches

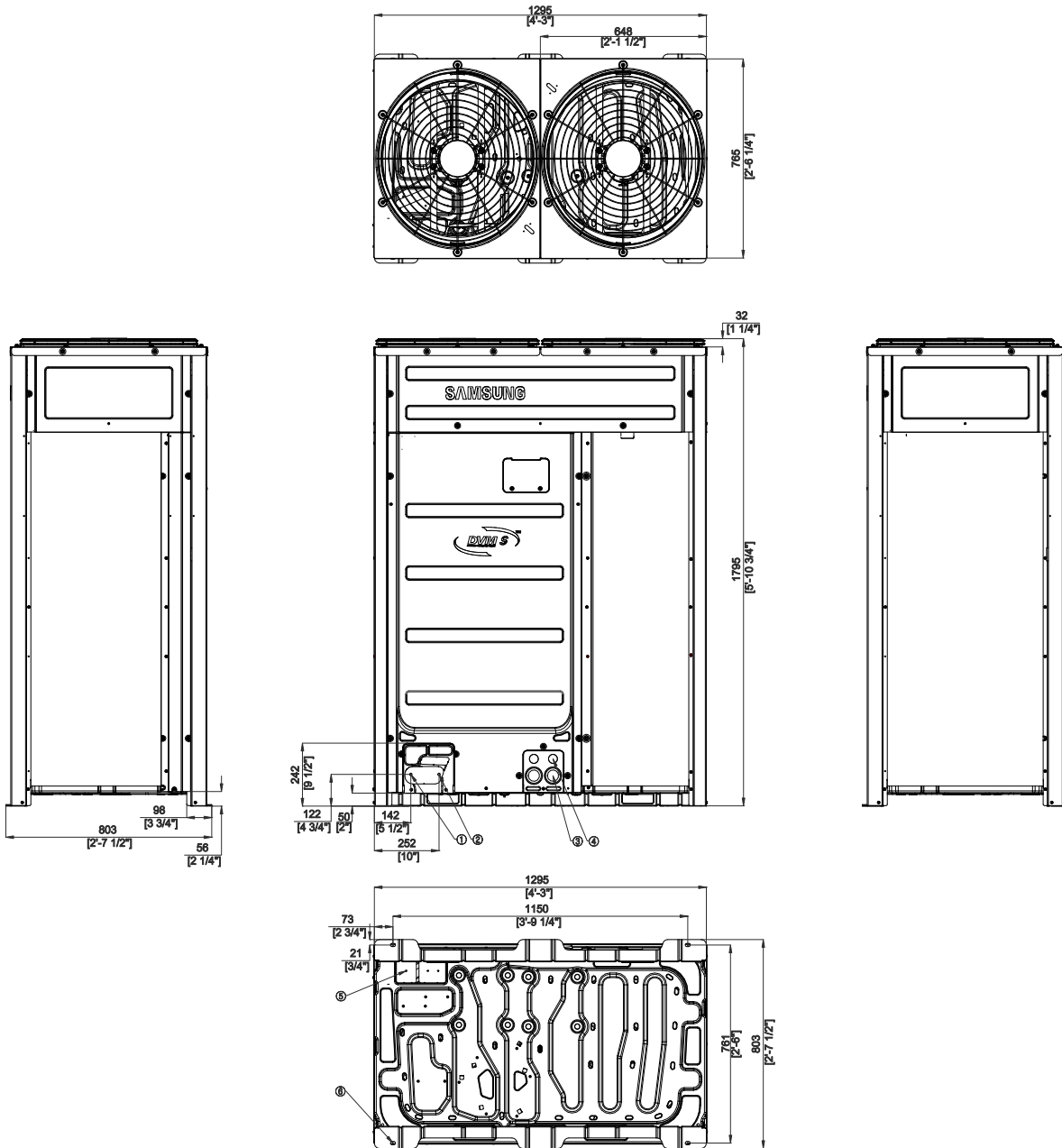
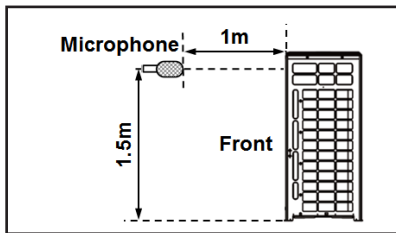


Table of descriptions

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

6 Sound pressure level

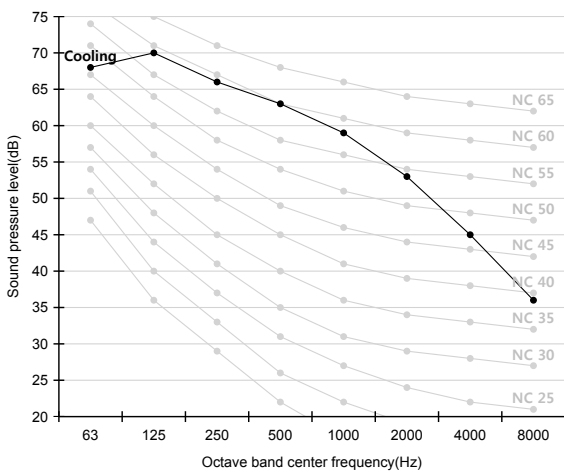
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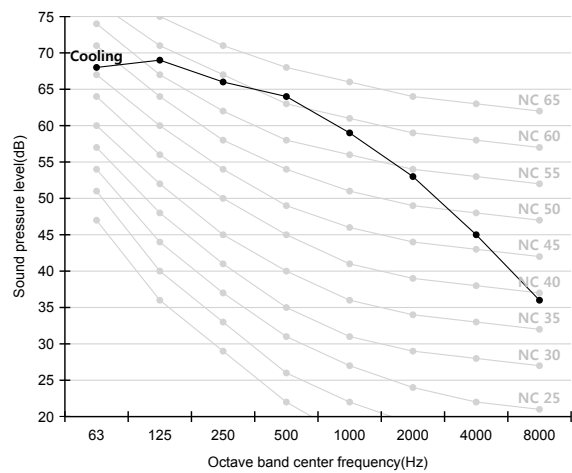
| Unit: dB(A) | |
|----------------|---------|
| Model | Cooling |
| AM240KXVANH/TL | 66 |
| AM260KXVANH/TL | 66 |
| AM280KXVANH/TL | 69 |
| AM300KXVANH/TL | 69 |

NC curve

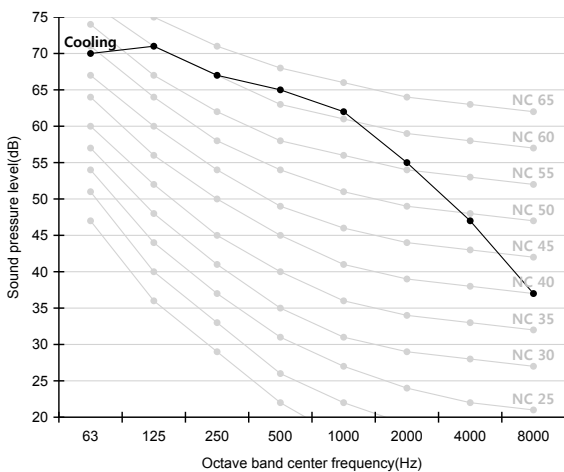
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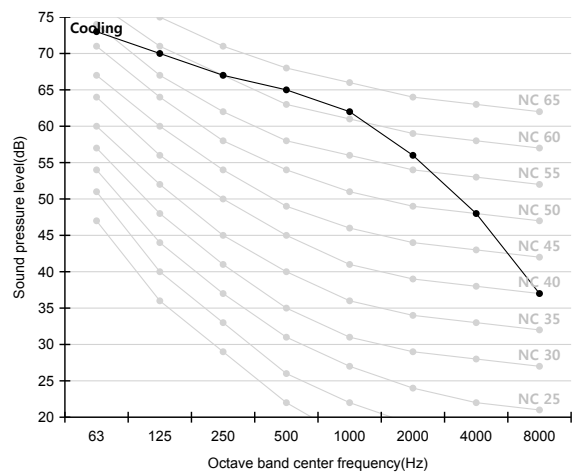
2) AM260KXVANH/TL



3) AM280KXVANH/TL



4) AM300KXVANH/TL



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

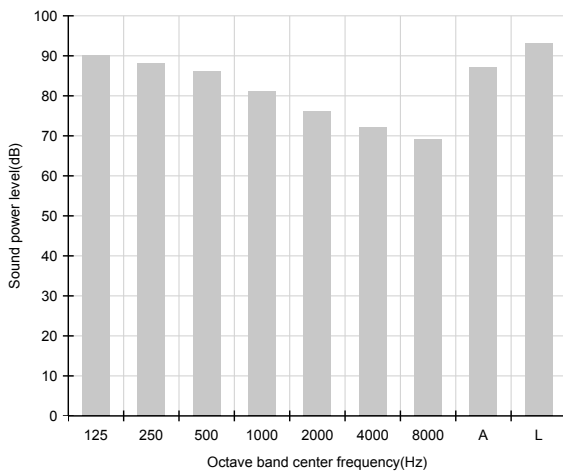
7 Sound power level

Outdoor

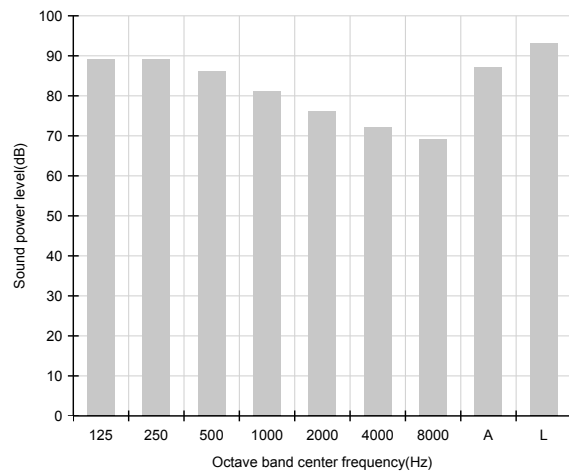
Unit: dB(A)

| Model | Power |
|----------------|-------|
| AM240KXVANH/TL | 89 |
| AM260KXVANH/TL | 89 |
| AM280KXVANH/TL | 90 |
| AM300KXVANH/TL | 90 |

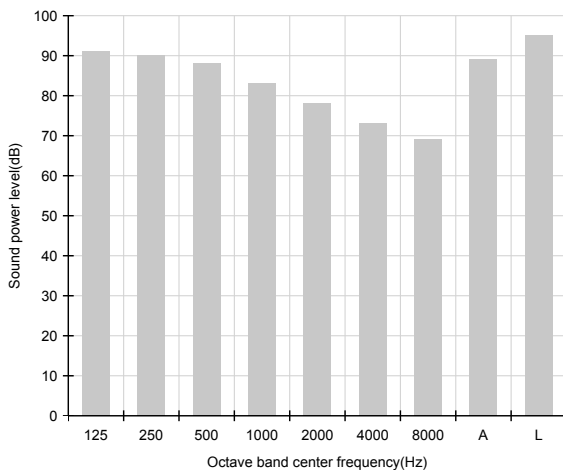
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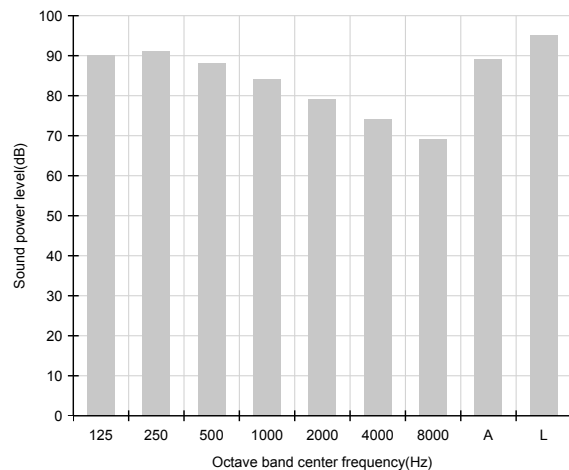
2)AM260KXVANH/TL



3)AM280KXVANH/TL



4)AM300KXVANH/TL



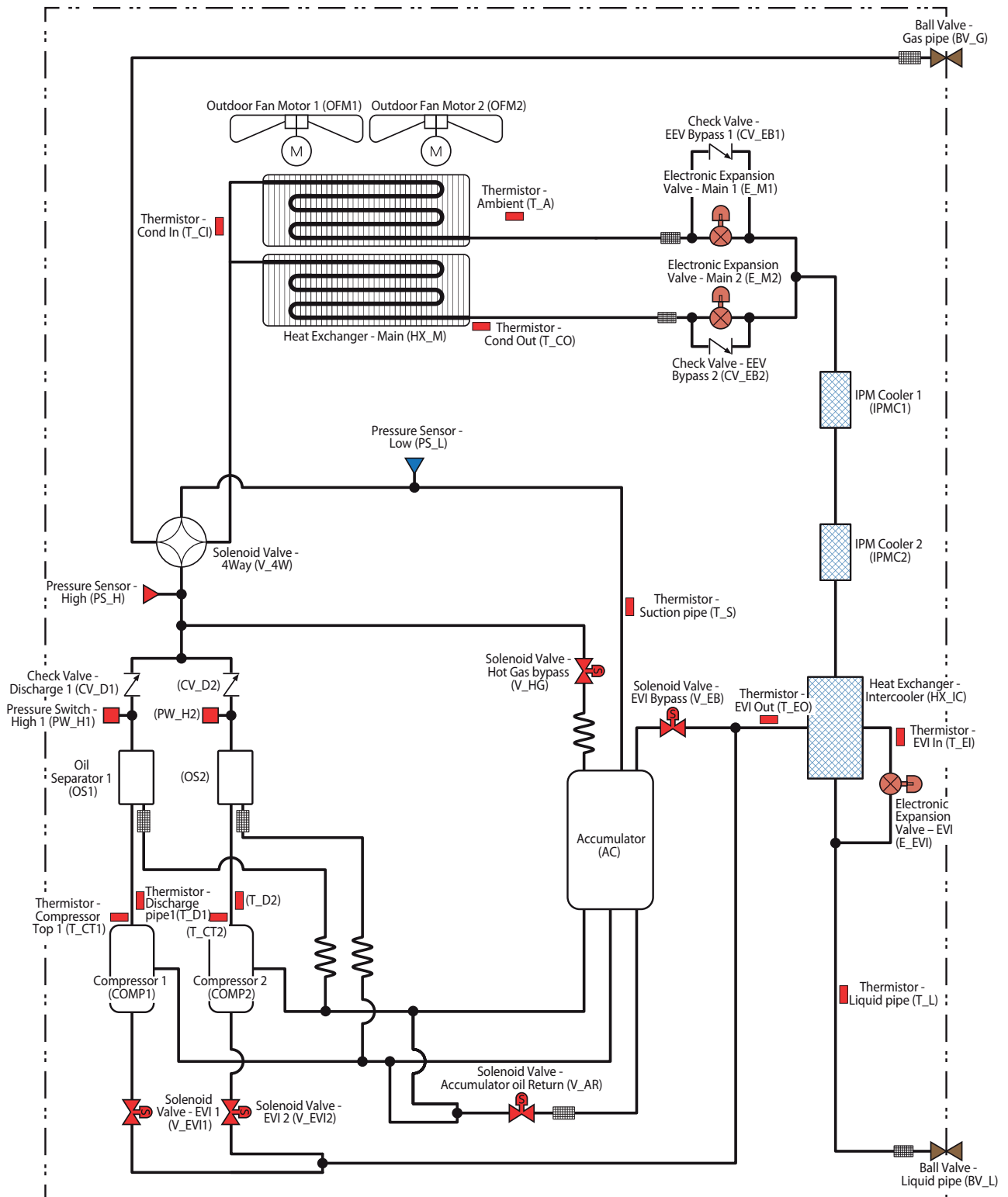
NOTE

- 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 Cycle diagram

Outdoor

AM240KXVANH/TL, AM260KXVANH/TL



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