

SAMSUNG
Climate Solutions

VRF



DVM S2 High Efficiency Heat Recovery (3-Pipe)

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- Erp (Ecodesign) compliant and Eurovent certified.
- Advanced Flash Injection™ technology.
- Active AI Pressure Control.
- Active AI Defrost.

- Active AI Refrigerant analysis.
- Durafin™ Ultra Heat Exchanger Fin.
- Optional Slimmer Liquid Pipe.
- On-device Inverter Checker™.

Specifications



| Model | | | AM080AXVGGR/EU | AM100AXVGGR/EU | AM120AXVGGR/EU | AM140AXVGGR/EU | AM160AXVGGR/EU |
|--|--------------------------|---------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Electrical | | | | | | | |
| Power Supply | | Ø, #, V, Hz | 3Ø, 4, 380–415 V, 50 Hz | 3Ø, 4, 380–415 V, 50 Hz | 3Ø, 4, 380–415 V, 50 Hz | 3Ø, 4, 380–415 V, 50 Hz | 3Ø, 4, 380–415 V, 50 Hz |
| Minimum SSC value | | MVA | 3.0 | 3.4 | 4.0 | 4.4 | 5.2 |
| MCA | | A | 18.0 | 21.2 | 25.0 | 27.0 | 32.0 |
| MFA | | A | 25 | 32 | 32 | 32 | 40 |
| Interconnecting Communication Cable | | mm ² | Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection | | | | |
| Performance¹ | | | | | | | |
| Horsepower | | HP | 8 | 10 | 12 | 14 | 16 |
| Capacity (Rated) | Nominal Cooling Capacity | kW | 22.4 | 28.0 | 33.6 | 40.0 | 45.0 |
| | Nominal Heating Capacity | kW | 22.4 | 28.0 | 33.6 | 40.0 | 45.0 |
| | Max Heating Capacity | kW | 25.2 | 31.5 | 37.8 | 45.0 | 50.4 |
| Operating Temperature Range | Cooling | °C | -5 – 50 | -5 – 50 | -5 – 50 | -5 – 50 | -5 – 50 |
| | Heating | °C | -25 – 24 | -25 – 24 | -25 – 24 | -25 – 24 | -25 – 24 |
| Maximum quantity of connectable indoor units | | ea | 14 | 18 | 21 | 26 | 29 |
| Energy Efficiency² | | | | | | | |
| Seasonal Efficiency (Ducted) | SEER | W/W | 7.20 | 6.90 | 6.90 | 6.70 | 6.90 |
| | SCOP | W/W | 4.50 | 4.40 | 4.56 | 4.25 | 4.30 |
| | η _{s,c} | % | 285.0 | 273.0 | 273.0 | 265.0 | 273.0 |
| | η _{s,h} | % | 177.0 | 173.0 | 179.4 | 167.0 | 169.0 |
| Seasonal Efficiency (Cassettes) | SEER | W/W | 7.78 | 7.22 | 7.22 | 6.94 | 7.25 |
| | SCOP | W/W | 4.53 | 4.39 | 4.41 | 4.35 | 4.35 |
| | η _{s,c} | % | 308.2 | 285.8 | 285.8 | 274.6 | 287 |
| | η _{s,h} | % | 178.2 | 172.6 | 173.4 | 171.0 | 171.0 |
| Fan | | | | | | | |
| Type | | - | Propeller | Propeller | Propeller | Propeller | Propeller |
| Discharge Direction | | | Top | Top | Top | Top | Top |
| Number of Fans | | ea | 1 | 1 | 1 | 2 | 2 |
| Fan Motor | Model | - | BLDC | BLDC | BLDC | BLDC | BLDC |
| | Output x n | W | 630 x 1 | 630 x 1 | 630 x 1 | 620 x 2 | 620 x 2 |
| Airflow Rate | | m ³ /min | 164 | 181 | 196 | 291 | 292 |
| | | l/s | 2738 | 3019 | 3260 | 4852 | 4866 |
| Static Pressure | Max | Pa | 110 | 110 | 110 | 110 | 110 |
| Compressor | | | | | | | |
| Type | | - | Inverter Scroll x 1 | Inverter Scroll x 1 | Inverter Scroll x 1 | Inverter Scroll x 1 | Inverter Scroll x 1 |
| Output x n | | kW | 4.60 x 1 | 6.67 x 1 | 6.67 x 1 | 6.67 x 1 | 8.93 x 1 |
| Piping Connections | | | | | | | |
| Liquid Pipe | | ø, mm (inch) | 9.52 (3/8) | 9.52 (3/8) | 12.70 (1/2) | 12.70 (1/2) | 12.70 (1/2) |
| Gas Pipe | | ø, mm (inch) | 19.05 (3/4) | 22.22 (7/8) | 28.58 (1-1/8) | 28.58 (1-1/8) | 28.58 (1-1/8) |
| Discharge Gas Pipe | | ø, mm (inch) | 15.88 (5/8) | 19.05 (3/4) | 19.05 (3/4) | 22.22 (7/8) | 22.22 (7/8) |
| Refrigerant | | | | | | | |
| Type | | | R410A (Fluorinated greenhouse gas, GWP=2088) | | | | |
| Factory Charging | | kg | 7.0 | 7.0 | 7.0 | 8.0 | 10.5 |
| | | tCO ₂ e | 14.62 | 14.62 | 14.62 | 16.70 | 21.92 |
| Sound | | | | | | | |
| Sound Pressure Level | Cooling | dB(A) | 53 | 56 | 61 | 58 | 58 |
| | Heating | dB(A) | 58 | 60 | 63 | 61 | 61 |
| Sound Power Level | | dB(A) | 75 | 78 | 81 | 81 | 81 |
| Dimensions | | | | | | | |
| Net Weight | | kg | 199 | 211 | 211 | 237 | 268 |
| Net Dimensions | W x H x D | mm | 930 x 1695 x 765 | 930 x 1695 x 765 | 930 x 1695 x 765 | 1295 x 1695 x 765 | 1295 x 1695 x 765 |

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 7.5m, Level differences 0m

2 Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.

Specifications



| Model | | | AM180AXVGR/EU | AM200AXVGR/EU | AM220AXVGR/EU | AM240AXVGR/EU | AM260AXVGR/EU |
|--|--------------------------|---------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Electrical | | | | | | | |
| Power Supply | | Ø, #, V, Hz | 3Ø, 4, 380-415 V, 50 Hz | 3Ø, 4, 380-415 V, 50 Hz | 3Ø, 4, 380-415 V, 50 Hz | 3Ø, 4, 380-415 V, 50 Hz | 3Ø, 4, 380-415 V, 50 Hz |
| Minimum SSC value | | MVA | 6.4 | 7.0 | 7.4 | 9.3 | 10.2 |
| MCA | | A | 39.2 | 43.0 | 46.0 | 55.0 | 60.0 |
| MFA | | A | 50 | 63 | 63 | 63 | 75 |
| Interconnecting Communication Cable | | mm ² | Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection | | | | |
| Performance¹ | | | | | | | |
| Horsepower | | HP | 18 | 20 | 22 | 24 | 26 |
| Capacity (Rated) | Nominal Cooling Capacity | kW | 50.4 | 56.0 | 61.6 | 67.2 | 72.8 |
| | Nominal Heating Capacity | kW | 50.4 | 56.0 | 61.6 | 67.2 | 68.0 |
| | Max Heating Capacity | kW | 56.7 | 63.0 | 69.3 | 75.6 | 81.9 |
| Operating Temperature Range | Cooling | °C | -5 ~ 50 | -5 ~ 50 | -5 ~ 50 | -5 ~ 50 | -5 ~ 50 |
| | Heating | °C | -25 ~ 24 | -25 ~ 24 | -25 ~ 24 | -25 ~ 24 | -25 ~ 24 |
| Maximum quantity of connectable indoor units | | ea | 32 | 36 | 40 | 43 | 47 |
| Energy Efficiency² | | | | | | | |
| Seasonal Efficiency (Ducted) | SEER | W/W | 7.50 | 6.50 | 6.20 | 5.90 | 5.40 |
| | SCOP | W/W | 4.80 | 4.50 | 4.30 | 3.90 | 3.90 |
| | η _{s,c} | % | 297.0 | 257.0 | 245.0 | 233.0 | 213.0 |
| | η _{s,h} | % | 189.0 | 177.0 | 169.0 | 153.0 | 153.0 |
| Seasonal Efficiency (Cassettes) | SEER | W/W | 7.05 | 6.81 | 7.04 | 5.94 | 5.45 |
| | SCOP | W/W | 4.45 | 4.27 | 4.39 | 3.9 | 3.90 |
| | η _{s,c} | % | 279.0 | 269.4 | 278.6 | 234.6 | 215.0 |
| | η _{s,h} | % | 175.0 | 167.8 | 172.6 | 153.0 | 153.0 |
| Fan | | | | | | | |
| Type | | - | Propeller | Propeller | Propeller | Propeller | Propeller |
| Discharge Direction | | | Top | Top | Top | Top | Top |
| Number of Fans | | ea | 2 | 2 | 2 | 2 | 2 |
| Fan Motor | Model | - | BLDC | BLDC | BLDC | BLDC | BLDC |
| | Output x n | W | 620 x 2 | 620 x 2 | 620 x 2 | 620 x 2 | 620 x 2 |
| Airflow Rate | | m ³ /min | 313 | 313 | 342 | 365 | 365 |
| | | l/s | 5209 | 5209 | 5698 | 6089 | 6089 |
| Static Pressure | Max | Pa | 110 | 110 | 110 | 80 | 80 |
| Compressor | | | | | | | |
| Type | | - | Inverter Scroll x 1 | Inverter Scroll x 1 | Inverter Scroll x 2 | Inverter Scroll x 2 | Inverter Scroll x 2 |
| Output x n | | kW | 8.93 x 1 | 8.93 x 1 | 6.67 x 2 | 6.67 x 2 | 6.67 x 2 |
| Piping Connections | | | | | | | |
| Liquid Pipe | | ø, mm (inch) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 19.05 (3/4) |
| Gas Pipe | | ø, mm (inch) | 28.58 (1-1/8) | 28.58 (1-1/8) | 28.58 (1-1/8) | 34.92 (1-3/8) | 34.92 (1-3/8) |
| Discharge Gas Pipe | | ø, mm (inch) | 22.22 (7/8) | 28.58 (1-1/8) | 28.58 (1-1/8) | 28.58 (1-1/8) | 28.58 (1-1/8) |
| Refrigerant | | | | | | | |
| Type | | | R410A (Fluorinated greenhouse gas, GWP=2088) | | | | |
| Factory Charging | | kg | 10.5 | 10.5 | 10.5 | 14.0 | 14.0 |
| | | tCO ₂ e | 21.92 | 21.92 | 21.92 | 29.23 | 29.23 |
| Sound | | | | | | | |
| Sound Pressure Level | Cooling | dB(A) | 59 | 61 | 64 | 65 | 65 |
| | Heating | dB(A) | 63 | 63 | 65 | 67 | 67 |
| Sound Power Level | | dB(A) | 81 | 84 | 86 | 87 | 87 |
| Dimensions | | | | | | | |
| Net Weight | | kg | 274 | 274 | 309 | 332 | 332 |
| Net Dimensions | W x H x D | mm | 1295 x 1695 x 765 | 1295 x 1695 x 765 | 1295 x 1695 x 765 | 1295 x 1695 x 765 | 1295 x 1695 x 765 |

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
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² Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.