

Subtype Atom T 8kW with 240L tank

|                     |   |
|---------------------|---|
| Certificate Holder  | GD Midea Heating & Ventilating Equipment Co., Ltd.                        |
| Address             | Penglai Industry Road   |
| ZIP                 | 528311  |
| City                | Beijiao, Shunde, Foshan   |
| Country             | CN  |
| Certification Body  | BRE Global Limited  |
| Subtype title       | Atom T 8kW with 240L tank   |
| Registration number | 041-K007-41   |
| Heat Pump Type      | Outdoor Air/Water   |
| Refrigerant         | R32   |
| Mass of Refrigerant | 1.4 kg  |
| Certification Date  | 22.09.2025  |
| Testing basis       | Heat Pump Keymark Scheme Rules Rev 15                                     |
| Testing laboratory  | Hefei General Machinery & Electrical Products Inspection Institute (GMPI) |

**Model MDV-V80WHN8(At) + SMKT-D160/240CGN8(At)**

|                                     |   |
|-------------------------------------|---|
| Model name                          | MDV-V80WHN8(At) + SMKT-D160/240CGN8(At) |
| Application                         | Heating + DHW                           |
| Units                               | Indoor, Outdoor                         |
| Climate zone (for heating)          | n/a                                     |
| Reversibility                       | Yes                                     |
| Cooling mode application (optional) | n/a                                     |
| Any additional heat sources         | n/a                                     |

**General data**

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

**Outdoor Air/Water**
**EN 16147 | Average Climate**

|                                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 110 %      |
| COP                             | 2.98       |
| Heating up time                 | 2:08 h:min |
| Standby power input             | 26.0 W     |
| Reference hot water temperature | 48.3 °C    |
| Mixed water at 40°C             | 272 l      |

**EN 14511-4 | Heating**

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

**EN 14511-2 | Heating**

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 7.2 kW          | 6.8 kW             |
| El input    | 1.89 kW         | 3.02 kW            |
| COP         | 3.8             | 2.25               |

**EN 12102-1 | Average Climate**

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 66 dB(A)        | 66 dB(A)           |

**EN 14825 | Average Climate**

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 151 %           | 110 %              |

|   |             |             |
|---|-------------|-------------|
| Prated  | 8 kW        | 6.4 kW      |
| SCOP  | 3.85        | 2.83        |
| Tbiv  | -7 °C       | -7 °C       |
| TOL   | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 6.9 kW      | 5.9 kW      |
| COP Tj = -7°C                                       | 2.37        | 1.68        |
| Cdh Tj = -7 °C                                      | 0.9         | 0.9         |
| Pdh Tj = +2°C                                       | 4.4 kW      | 3.53 kW     |
| COP Tj = +2°C                                       | 3.99        | 2.9         |
| Cdh Tj = +2 °C                                      | 0.9         | 0.9         |
| Pdh Tj = +7°C                                       | 2.78 kW     | 2.43 kW     |
| COP Tj = +7°C                                       | 4.14        | 4.14        |
| Cdh Tj = +7 °C                                      | 0.9         | 0.9         |
| Pdh Tj = 12°C                                       | 2.56 kW     | 2.32 kW     |
| COP Tj = 12°C                                       | 5.57        | 5.57        |
| Cdh Tj = +12 °C                                     | 0.9         | 0.9         |
| Pdh Tj = Tbiv                                       | 6.9 kW      | 5.9 kW      |
| COP Tj = Tbiv                                       | 2.37        | 1.68        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.1 kW      | 6.56 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.17        | 1.64        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 0 W         | 0 W         |
| PTO   | 0 W         | 0 W         |
| PSB   | 0 W         | 0 W         |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.9 kW      | 0 kW        |
| Annual energy consumption Qhe                       | 4246 kWh    | 4606 kWh    |