

| Technical parameters                                                                                                                                                                                                                                                   |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Model(s):                                                                                                                                                                                                                                                              |                                                                                                                            | MHA-V12W/D2RN8-B2 / HBT-A160/240CDS90GN8-B2  |      |                                                                                                                                  |            |       |      |
| Air-to-water heat pump:                                                                                                                                                                                                                                                |                                                                                                                            | YES                                          |      |                                                                                                                                  |            |       |      |
| Water-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                            | NO                                           |      |                                                                                                                                  |            |       |      |
| Brine-to-water heat pump:                                                                                                                                                                                                                                              |                                                                                                                            | NO                                           |      |                                                                                                                                  |            |       |      |
| Low-temperature heat pump:                                                                                                                                                                                                                                             |                                                                                                                            | NO                                           |      |                                                                                                                                  |            |       |      |
| Equipped with a supplementary heater:                                                                                                                                                                                                                                  |                                                                                                                            | YES                                          |      |                                                                                                                                  |            |       |      |
| Heat pump combination heater:                                                                                                                                                                                                                                          |                                                                                                                            | YES                                          |      |                                                                                                                                  |            |       |      |
| Declared climate condition:                                                                                                                                                                                                                                            |                                                                                                                            | AVERAGE                                      |      |                                                                                                                                  |            |       |      |
| Parameters are declared for medium-temperature application.                                                                                                                                                                                                            |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
|                                                                                                                                                                                                                                                                        |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| Item                                                                                                                                                                                                                                                                   | Symbol                                                                                                                     | Value                                        | Unit | Item                                                                                                                             | Symbol     | Value | Unit |
| Rated heat output (*)                                                                                                                                                                                                                                                  | Prated                                                                                                                     | 11.6                                         | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 135.1 | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                     |                                                                                                                            |                                              |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = -7°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                        | 10.24                                        | kW   | Tj = -7°C                                                                                                                        | COPd       | 2.01  | -    |
| Tj = 2°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                        | 6.52                                         | kW   | Tj = 2°C                                                                                                                         | COPd       | 3.44  | -    |
| Tj = 7°C                                                                                                                                                                                                                                                               | Pdh                                                                                                                        | 4.36                                         | kW   | Tj = 7°C                                                                                                                         | COPd       | 4.59  | -    |
| Tj = 12°C                                                                                                                                                                                                                                                              | Pdh                                                                                                                        | 3.29                                         | kW   | Tj = 12°C                                                                                                                        | COPd       | 6.05  | -    |
| Tj = bivalent temperature                                                                                                                                                                                                                                              | Pdh                                                                                                                        | 10.24                                        | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.01  | -    |
| Tj = operating limit                                                                                                                                                                                                                                                   | Pdh                                                                                                                        | 9.10                                         | kW   | Tj = operating limit                                                                                                             | COPd       | 1.79  | -    |
| For air-to-water heat pumps: Tj = -15°C                                                                                                                                                                                                                                | Pdh                                                                                                                        | -                                            | kW   | For air-to-water heat pumps: Tj = -15°C                                                                                          | COPd       | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                                                   | Tbiv                                                                                                                       | -7                                           | °C   | For air-to-water heat pumps: Operation limit temperature                                                                         | TOL        | -10   | °C   |
| Cycling interval capacity for heating                                                                                                                                                                                                                                  | Pcyc                                                                                                                       | -                                            | kW   | Cycling interval efficiency                                                                                                      | COPcyc     | -     | -    |
| Degradation co-efficient (**)                                                                                                                                                                                                                                          | Cdh                                                                                                                        | 0.9                                          | --   | Heating water operating limit temperature                                                                                        | WTOL       | 65    | °C   |
| Power consumption in modes other than active mode                                                                                                                                                                                                                      |                                                                                                                            |                                              |      | Supplementary heater                                                                                                             |            |       |      |
| Off mode                                                                                                                                                                                                                                                               | Poff                                                                                                                       | 0.014                                        | kW   | Rated heat output (**)                                                                                                           | Psup       | 1.23  | kW   |
| Standby mode                                                                                                                                                                                                                                                           | Psb                                                                                                                        | 0.014                                        | kW   |                                                                                                                                  |            |       |      |
| Thermostat-off mode                                                                                                                                                                                                                                                    | Pto                                                                                                                        | 0.024                                        | kW   | Type of energy input                                                                                                             | Electrical |       |      |
| Crankcase heater mode                                                                                                                                                                                                                                                  | Pck                                                                                                                        | 0.000                                        | kW   |                                                                                                                                  |            |       |      |
|                                                                                                                                                                                                                                                                        |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| Other items                                                                                                                                                                                                                                                            |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| Capacity control                                                                                                                                                                                                                                                       | variable                                                                                                                   |                                              |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -          | 4060  | m³/h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                    | LWA                                                                                                                        | 43 <sup>a)</sup> /64<br>42 <sup>b)</sup> /64 | dB   | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                   | -          | -     | m³/h |
| Annual energy consumption                                                                                                                                                                                                                                              | QHE                                                                                                                        | 6927                                         | kWh  |                                                                                                                                  |            |       |      |
| For heat pump combination heater:                                                                                                                                                                                                                                      |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| Declared load profile                                                                                                                                                                                                                                                  | XL                                                                                                                         |                                              |      | Water heating energy efficiency                                                                                                  | ηwh        | 123   | %    |
| Daily electricity consumption                                                                                                                                                                                                                                          | Qdec                                                                                                                       | 6.35                                         | kWh  | Daily fuel consumption                                                                                                           | Qfuel      | -     | kWh  |
| Annual electricity consumption                                                                                                                                                                                                                                         | AEC                                                                                                                        | 1360                                         | kWh  | Annual fuel consumption                                                                                                          | AFC        | -     | GJ   |
|                                                                                                                                                                                                                                                                        |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| Contact details                                                                                                                                                                                                                                                        | GD Midea Heating & Ventilating Equipment Co. Ltd<br>(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China) |                                              |      |                                                                                                                                  |            |       |      |
| (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.                                                                                                                                                                    |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| a) Represents : HB-A160/C***GN8-B2                                                                                                                                                                                                                                     |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |
| b) Represents : HBT-A160/240CD***GN8-B2                                                                                                                                                                                                                                |                                                                                                                            |                                              |      |                                                                                                                                  |            |       |      |