

### Information requirements (air-to-air air conditioners)

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------|-----------------------------------|---------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(1):GMV-450WM/H-X; Model(2):GMV-450WM/H1-X                                                                                                                                                                                                        |                                      |       |                                   |                                                                                             |                  |       |      |
| Outdoor side heat exchanger of air conditioner                                                                                                                                                                                                         | air                                  |       |                                   |                                                                                             |                  |       |      |
| Indoor side heat exchanger of air conditioner                                                                                                                                                                                                          | air                                  |       |                                   |                                                                                             |                  |       |      |
| Type                                                                                                                                                                                                                                                   | compressor driven vapour compression |       |                                   |                                                                                             |                  |       |      |
| If applicable: driver of compressor                                                                                                                                                                                                                    | electric motor                       |       |                                   |                                                                                             |                  |       |      |
| Item                                                                                                                                                                                                                                                   | Symbol                               | Value | Unit                              | Item                                                                                        | Symbol           | Value | Unit |
| Rated cooling capacity                                                                                                                                                                                                                                 | P <sub>rated,c</sub>                 | 45.00 | kW                                | Seasonal space cooling energy efficiency                                                    | η <sub>s,c</sub> | 246.6 | %    |
| Declared cooling capacity for part load at given outdoor temperatures T <sub>j</sub> and indoor 27 °C/19 °C (dry/wet bulb)                                                                                                                             |                                      |       |                                   | Declared energy efficiency ratio for part load at given outdoor temperatures T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = + 35 °C                                                                                                                                                                                                                               | P <sub>dc</sub>                      | 45.00 | kW                                | T <sub>j</sub> = + 35 °C                                                                    | EER <sub>d</sub> | 2.24  | -    |
| T <sub>j</sub> = + 30 °C                                                                                                                                                                                                                               | P <sub>dc</sub>                      | 33.15 | kW                                | T <sub>j</sub> = + 30 °C                                                                    | EER <sub>d</sub> | 3.90  | -    |
| T <sub>j</sub> = + 25 °C                                                                                                                                                                                                                               | P <sub>dc</sub>                      | 21.31 | kW                                | T <sub>j</sub> = + 25 °C                                                                    | EER <sub>d</sub> | 7.38  | -    |
| T <sub>j</sub> = + 20 °C                                                                                                                                                                                                                               | P <sub>dc</sub>                      | 9.47  | kW                                | T <sub>j</sub> = + 20 °C                                                                    | EER <sub>d</sub> | 18.00 | -    |
| Degradation co-efficient for air conditioners(*)                                                                                                                                                                                                       | C <sub>dc</sub>                      | 0.25  | —                                 |                                                                                             |                  |       | -    |
| Power consumption in modes other than ‘active mode’                                                                                                                                                                                                    |                                      |       |                                   |                                                                                             |                  |       |      |
| Off mode                                                                                                                                                                                                                                               | P <sub>OFF</sub>                     | 0.020 | kW                                | Crankcase heater mode                                                                       | P <sub>CK</sub>  | 0.010 | kW   |
| Thermostat-off mode                                                                                                                                                                                                                                    | P <sub>TO</sub>                      | 0.040 | kW                                | Standby mode                                                                                | P <sub>SB</sub>  | 0.020 | kW   |
| Other items                                                                                                                                                                                                                                            |                                      |       |                                   |                                                                                             |                  |       |      |
| Capacity control                                                                                                                                                                                                                                       | variable                             |       |                                   | For air-to-air air conditioner: air flow rate, outdoor measured                             | —                | 15400 | m³/h |
| Sound power level, indoor/outdoor                                                                                                                                                                                                                      | L <sub>WA</sub>                      | -/93  | dB                                |                                                                                             |                  |       |      |
| If engine driven: Emissions of nitrogen oxides                                                                                                                                                                                                         | NOx(**)                              | -     | mg/kWh fuel input GCV             |                                                                                             |                  |       |      |
| GWP of the refrigerant                                                                                                                                                                                                                                 | 2088                                 |       | kg CO <sub>2</sub> eq (100 years) |                                                                                             |                  |       |      |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                          |                                      |       |                                   | Name of manufacturer:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                            |                  |       |      |
| (*) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.<br>(**) From 26 September 2018.                                                                                       |                                      |       |                                   |                                                                                             |                  |       |      |
| Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer. |                                      |       |                                   |                                                                                             |                  |       |      |

### Information requirements (heat pump)

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|-----------------------------------|------------------------------------------------------------------------------------------------|------------------|-------|------|
| Model(1):GMV-450WM/H-X; Model(2):GMV-450WM/H1-X                                                                                                                                                                                                  |                           |       |                                   |                                                                                                |                  |       |      |
| Outdoor side heat exchanger of heat pump                                                                                                                                                                                                         | Air                       |       |                                   |                                                                                                |                  |       |      |
| Indoor side heat exchanger of heat pump                                                                                                                                                                                                          | air                       |       |                                   |                                                                                                |                  |       |      |
| Indication if the heater is equipped with a supplementary heater                                                                                                                                                                                 | no                        |       |                                   |                                                                                                |                  |       |      |
| If applicable: driver of compressor                                                                                                                                                                                                              | electric motor            |       |                                   |                                                                                                |                  |       |      |
| Parameters declared for                                                                                                                                                                                                                          | Average climate condition |       |                                   |                                                                                                |                  |       |      |
| Item                                                                                                                                                                                                                                             | symbol                    | value | unit                              | Item                                                                                           | symbol           | value | unit |
| Rated heating capacity                                                                                                                                                                                                                           | P <sub>rated,h</sub>      | 45.00 | kW                                | Seasonal space heating energy efficiency                                                       | $\eta_{s,h}$     | 190.6 | %    |
| Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>                                                                                                                                       |                           |       |                                   | Declared coefficient of performance for part load at given outdoor temperatures T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = – 7 °C                                                                                                                                                                                                                          | P <sub>dh</sub>           | 20.71 | kW                                | T <sub>j</sub> = – 7 °C                                                                        | COP <sub>d</sub> | 2.90  | -    |
| T <sub>j</sub> = + 2 °C                                                                                                                                                                                                                          | P <sub>dh</sub>           | 12.65 | kW                                | T <sub>j</sub> = + 2 °C                                                                        | COP <sub>d</sub> | 4.50  | -    |
| T <sub>j</sub> = + 7 °C                                                                                                                                                                                                                          | P <sub>dh</sub>           | 8.13  | kW                                | T <sub>j</sub> = + 7 °C                                                                        | COP <sub>d</sub> | 7.20  | -    |
| T <sub>j</sub> = + 12 °C                                                                                                                                                                                                                         | P <sub>dh</sub>           | 6.21  | kW                                | T <sub>j</sub> = + 12 °C                                                                       | COP <sub>d</sub> | 9.20  | -    |
| T <sub>biv</sub> = bivalent temperature                                                                                                                                                                                                          | P <sub>dh</sub>           | 23.50 | kW                                | T <sub>biv</sub> = bivalent temperature                                                        | COP <sub>d</sub> | 2.30  | -    |
| T <sub>OL</sub> = operation limit                                                                                                                                                                                                                | P <sub>dh</sub>           | 23.50 | kW                                | T <sub>OL</sub> = operation limit                                                              | COP <sub>d</sub> | 2.30  | -    |
| T <sub>j</sub> = – 15 °C (if T <sub>OL</sub> < – 20 °C)                                                                                                                                                                                          | P <sub>dh</sub>           | -     | kW                                | T <sub>j</sub> =–15°C(if T <sub>OL</sub> < – 20 °C)                                            | COP <sub>d</sub> | -     | -    |
| Bivalent temperature                                                                                                                                                                                                                             | T <sub>biv</sub>          | -10   | °C                                | Operation limit temperature                                                                    | T <sub>ol</sub>  | -10   | °C   |
| Degradation co-efficient heat pumps(**)                                                                                                                                                                                                          | C <sub>dh</sub>           | 0.25  | —                                 |                                                                                                |                  |       |      |
| Power consumption in modes other than ‘active mode’                                                                                                                                                                                              |                           |       |                                   | Supplementary heater                                                                           |                  |       |      |
| Off mode                                                                                                                                                                                                                                         | P <sub>OFF</sub>          | 0.025 | kW                                | Back-up heating capacity(*)                                                                    | elbu             | -     | kW   |
| Thermostat-off mode                                                                                                                                                                                                                              | P <sub>TO</sub>           | 0.050 | kW                                | Type of energy input                                                                           |                  |       |      |
| Crankcase heater mode                                                                                                                                                                                                                            | P <sub>CK</sub>           | 0.050 | kW                                | Standby mode                                                                                   | P <sub>SB</sub>  | 0.025 | kW   |
| Other items                                                                                                                                                                                                                                      |                           |       |                                   |                                                                                                |                  |       |      |
| Capacity control                                                                                                                                                                                                                                 | variable                  |       |                                   | air flow rate, outdoor measured                                                                | —                | 15400 | m³/h |
| Sound power level, indoor/outdoor measured                                                                                                                                                                                                       | L <sub>WA</sub>           | -/92  | dB                                |                                                                                                |                  |       |      |
| Emissions of nitrogen oxides (if applicable)                                                                                                                                                                                                     | NO <sub>x</sub> (***)     | -     | mg/kWh input GCV                  | Rated brine or water flow rate, outdoor side heat exchanger                                    | —                | —     | m³/h |
| GWP of the refrigerant                                                                                                                                                                                                                           | 2088                      |       | kg CO <sub>2</sub> eq (100 years) |                                                                                                |                  |       |      |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                    |                           |       |                                   | Name of manufacturer:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                               |                  |       |      |
| (*)                                                                                                                                                                                                                                              |                           |       |                                   |                                                                                                |                  |       |      |
| (**) If C <sub>dh</sub> is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25.                                                                                                                   |                           |       |                                   |                                                                                                |                  |       |      |
| (***) From 26 September 2018.                                                                                                                                                                                                                    |                           |       |                                   |                                                                                                |                  |       |      |
| Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer. |                           |       |                                   |                                                                                                |                  |       |      |