

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                                |       |      |                                                                                                                                  |                   |       |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|--------------------|
| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                                |       |      |                                                                                                                                  |                   |       |                    |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                              |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                    |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                    |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Medium-temperature application |       |      |                                                                                                                                  |                   |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Average climate condition      |       |      |                                                                                                                                  |                   |       |                    |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                         | value | unit | Item                                                                                                                             | symbol            | value | unit               |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                         | 13    | kW   | Seasonal space heating energy efficiency                                                                                         | ηs                | 144   | %                  |
| 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                            | 11.23 | kW   | Tj = - 7 °C                                                                                                                      | COPd              | 2.91  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.99  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 6.82  | kW   | Tj = 2 °C                                                                                                                        | COPd              | 3.43  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.98  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 4.58  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 4.30  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.97  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                            | 4.80  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 6.52  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.96  | -    |                                                                                                                                  |                   |       |                    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 11.23 | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 2.91  | -                  |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                            | 11.98 | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 1.99  | -                  |
| For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                            | NA    | kW   | For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                 | COPd              | NA    | -                  |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                           | -7    | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | -10   | °C                 |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                         | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | -                  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                 |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                                |       |      | Supplementary heater                                                                                                             |                   |       |                    |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>               | 0.025 | kW   | Rated heat output (*)                                                                                                            | Psup              | 1.02  | kW                 |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>                | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                    |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>                | 0.025 | kW   |                                                                                                                                  |                   |       |                    |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>                | 0     | kW   |                                                                                                                                  |                   |       |                    |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                                |       |      |                                                                                                                                  |                   |       |                    |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                       |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -                 | 4003  | m <sup>3</sup> / h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>                | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | -                 | NA    | m <sup>3</sup> / h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>                | 7124  | kWh  |                                                                                                                                  |                   |       |                    |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                                |       |      |                                                                                                                                  |                   |       |                    |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                              |       |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | 112   | %                  |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>              | 4.459 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh                |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                            | 915   | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                 |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                                |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                    |
| (*) 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. |                                |       |      |                                                                                                                                  |                   |       |                    |

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                                |       |      |                                                                                                                                  |                   |       |                    |
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| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                                |       |      |                                                                                                                                  |                   |       |                    |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                              |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                    |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                    |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Medium-temperature application |       |      |                                                                                                                                  |                   |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Colder climate condition       |       |      |                                                                                                                                  |                   |       |                    |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                         | value | unit | Item                                                                                                                             | symbol            | value | unit               |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                         | 12    | kW   | Seasonal space heating energy efficiency                                                                                         | ηs                | 117   | %                  |
| 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                            | 7.02  | kW   | Tj = - 7 °C                                                                                                                      | COPd              | 2.48  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.99  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 4.46  | kW   | Tj = 2 °C                                                                                                                        | COPd              | 3.61  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.98  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 3.74  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 4.40  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.97  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                            | 4.64  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 6.05  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.96  | -    |                                                                                                                                  |                   |       |                    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 9.83  | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 1.89  | -                  |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                            | 8.25  | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 1.41  | -                  |
| For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                            | 9.83  | kW   | For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                 | COPd              | 1.89  | -                  |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                           | -15   | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | -22   | °C                 |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                         | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | -                  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                 |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                                |       |      | Supplementary heater                                                                                                             |                   |       |                    |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>               | 0.025 | kW   | Rated heat output (*)                                                                                                            | Psup              | 3.75  | kW                 |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>                | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                    |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>                | 0.025 | kW   |                                                                                                                                  |                   |       |                    |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>                | 0     | kW   |                                                                                                                                  |                   |       |                    |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                                |       |      |                                                                                                                                  |                   |       |                    |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                       |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -                 | 4003  | m <sup>3</sup> / h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>                | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | -                 | NA    | m <sup>3</sup> / h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>                | 9858  | kWh  |                                                                                                                                  |                   |       |                    |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                                |       |      |                                                                                                                                  |                   |       |                    |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                              |       |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | 95    | %                  |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>              | 5.225 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh                |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                            | 1077  | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                 |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                                |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                    |
| (*) 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. |                                |       |      |                                                                                                                                  |                   |       |                    |

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                                |       |      |                                                                                                                                  |                   |       |                    |
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| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                                |       |      |                                                                                                                                  |                   |       |                    |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                              |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                    |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                    |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                              |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Medium-temperature application |       |      |                                                                                                                                  |                   |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Warmer climate condition       |       |      |                                                                                                                                  |                   |       |                    |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                         | value | unit | Item                                                                                                                             | symbol            | value | unit               |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                         | 14    | kW   | Seasonal space heating energy efficiency                                                                                         | ηs                | 171   | %                  |
| 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                            | NA    | kW   | Tj = - 7 °C                                                                                                                      | COPd              | NA    | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | NA    | -    |                                                                                                                                  |                   |       |                    |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 14.08 | kW   | Tj = 2 °C                                                                                                                        | COPd              | 2.37  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.99  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 9.57  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 3.89  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.99  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                            | 4.21  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 5.30  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                            | 0.96  | -    |                                                                                                                                  |                   |       |                    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 14.08 | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 2.37  | -                  |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                            | 14.08 | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 2.37  | -                  |
| For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                            | NA    | kW   | For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                 | COPd              | NA    | -                  |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                           | 2     | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | 2     | °C                 |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                         | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | -                  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                 |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                                |       |      | Supplementary heater                                                                                                             |                   |       |                    |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>               | 0.025 | kW   | Rated heat output (*)                                                                                                            | Psup              | 0     | kW                 |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>                | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                    |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>                | 0.025 | kW   |                                                                                                                                  |                   |       |                    |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>                | 0     | kW   |                                                                                                                                  |                   |       |                    |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                                |       |      |                                                                                                                                  |                   |       |                    |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                       |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -                 | 4003  | m <sup>3</sup> / h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>                | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | -                 | NA    | m <sup>3</sup> / h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>                | 4322  | kWh  |                                                                                                                                  |                   |       |                    |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                                |       |      |                                                                                                                                  |                   |       |                    |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                              |       |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | 116   | %                  |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>              | 4.309 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh                |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                            | 883   | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                 |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                                |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                    |
| (*) 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. |                                |       |      |                                                                                                                                  |                   |       |                    |

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                             |       |      |                                                                                                                                  |                   |       |                    |
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| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                             |       |      |                                                                                                                                  |                   |       |                    |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                           |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                    |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                    |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Low-temperature application |       |      |                                                                                                                                  |                   |       |                    |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Average climate condition   |       |      |                                                                                                                                  |                   |       |                    |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                      | value | unit | Item                                                                                                                             | symbol            | value | unit               |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                      | 13    | kW   | Seasonal space heating energy efficiency                                                                                         | ηs                | 185   | %                  |
| 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                         | 11.18 | kW   | Tj = - 7 °C                                                                                                                      | COPd              | 3.32  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.99  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 7.45  | kW   | Tj = 2 °C                                                                                                                        | COPd              | 4.49  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.97  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 4.62  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 6.04  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.93  | -    |                                                                                                                                  |                   |       |                    |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                         | 4.56  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 6.87  | -                  |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.90  | -    |                                                                                                                                  |                   |       |                    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 11.18 | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 3.32  | -                  |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                         | 12.19 | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 2.56  | -                  |
| For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                         | NA    | kW   | For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C )                                                                 | COPd              | NA    | -                  |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                        | -7    | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | -10   | °C                 |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                      | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | -                  |
|                                                                                                                                                                                                                                                                                                                                                                            |                             |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                 |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                             |       |      | Supplementary heater                                                                                                             |                   |       |                    |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>            | 0.025 | kW   | Rated heat output (*)                                                                                                            | Psup              | 0.81  | kW                 |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>             | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                    |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>             | 0.025 | kW   |                                                                                                                                  |                   |       |                    |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>             | 0     | kW   |                                                                                                                                  |                   |       |                    |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                             |       |      |                                                                                                                                  |                   |       |                    |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                    |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | -                 | 3086  | m <sup>3</sup> / h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>             | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | -                 | NA    | m <sup>3</sup> / h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>             | 5549  | kWh  |                                                                                                                                  |                   |       |                    |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                             |       |      |                                                                                                                                  |                   |       |                    |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                           |       |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | 112   | %                  |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>           | 4.459 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh                |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                         | 915   | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                 |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                             |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                    |
| (*) 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. |                             |       |      |                                                                                                                                  |                   |       |                    |

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                             |       |      |                                                                                                                                  |                   |       |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------------------|
| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                             |       |      |                                                                                                                                  |                   |       |                   |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                           |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                   |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                   |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                   |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Low-temperature application |       |      |                                                                                                                                  |                   |       |                   |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Colder climate condition    |       |      |                                                                                                                                  |                   |       |                   |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                      | value | unit | Item                                                                                                                             | symbol            | value | unit              |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                      | 13    | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$          | 163   | %                 |
| 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                         | 7.50  | kW   | Tj = − 7 °C                                                                                                                      | COPd              | 3.16  | –                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.98  | –    |                                                                                                                                  |                   |       |                   |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 4.86  | kW   | Tj = 2 °C                                                                                                                        | COPd              | 5.46  | –                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.97  | –    |                                                                                                                                  |                   |       |                   |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 3.95  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 5.64  | –                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.96  | –    |                                                                                                                                  |                   |       |                   |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                         | 4.62  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 7.28  | –                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.99  | –    |                                                                                                                                  |                   |       |                   |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 10.66 | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 2.73  | –                 |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                         | 8.80  | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 2.02  | –                 |
| For air-to-water heat pumps:<br>Tj = − 15 °C (if TOL < − 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                         | 10.66 | kW   | For air-to-water heat pumps:<br>Tj = − 15 °C (if TOL < − 20 °C )                                                                 | COPd              | 2.73  | –                 |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                        | -15   | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | -22   | °C                |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                      | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | –                 |
|                                                                                                                                                                                                                                                                                                                                                                            |                             |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                             |       |      | Supplementary heater                                                                                                             |                   |       |                   |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>            | 0.025 | kW   | Rated heat output (*)                                                                                                            | P <sub>sup</sub>  | 4.2   | kW                |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>             | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                   |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>             | 0.025 | kW   |                                                                                                                                  |                   |       |                   |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>             | 0     | kW   |                                                                                                                                  |                   |       |                   |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                             |       |      |                                                                                                                                  |                   |       |                   |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                    |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | –                 | 4003  | m <sup>3</sup> /h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>             | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | –                 | NA    | m <sup>3</sup> /h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>             | 7750  | kWh  |                                                                                                                                  |                   |       |                   |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                             |       |      |                                                                                                                                  |                   |       |                   |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                           |       |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$       | 95    | %                 |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>           | 5.225 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh               |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                         | 1077  | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                             |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                   |
| (*) 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. |                             |       |      |                                                                                                                                  |                   |       |                   |

| Information requirements<br>(heat pump space heaters and heat pump combination heaters)                                                                                                                                                                                                                                                                                    |                             |       |      |                                                                                                                                  |                   |       |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|-------------------|
| Model(s): GRS-CQ14PdG/NhH3-E                                                                                                                                                                                                                                                                                                                                               |                             |       |      |                                                                                                                                  |                   |       |                   |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                           |       |      | Low-temperature heat pump                                                                                                        | N                 |       |                   |
| Water-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Equipped with a supplementary heater                                                                                             | Y                 |       |                   |
| Brine-to-water heat pump                                                                                                                                                                                                                                                                                                                                                   | N                           |       |      | Heat pump combination heater                                                                                                     | Y                 |       |                   |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Low-temperature application |       |      |                                                                                                                                  |                   |       |                   |
| Parameters declared for                                                                                                                                                                                                                                                                                                                                                    | Warmer climate condition    |       |      |                                                                                                                                  |                   |       |                   |
| Item                                                                                                                                                                                                                                                                                                                                                                       | symbol                      | value | unit | Item                                                                                                                             | symbol            | value | unit              |
| Rated heat output (*)                                                                                                                                                                                                                                                                                                                                                      | Prated                      | 13    | kW   | Seasonal space heating energy efficiency                                                                                         | ηs                | 266   | %                 |
| 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                         | NA    | kW   | Tj = − 7 °C                                                                                                                      | COPd              | NA    | −                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | NA    | −    |                                                                                                                                  |                   |       |                   |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 12.84 | kW   | Tj = 2 °C                                                                                                                        | COPd              | 3.30  | −                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.99  | −    |                                                                                                                                  |                   |       |                   |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 8.46  | kW   | Tj = 7 °C                                                                                                                        | COPd              | 6.39  | −                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.98  | −    |                                                                                                                                  |                   |       |                   |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                         | 5.04  | kW   | Tj = 12 °C                                                                                                                       | COPd              | 8.04  | −                 |
| Degradation co-efficient (**)                                                                                                                                                                                                                                                                                                                                              | Cdh                         | 0.96  | −    |                                                                                                                                  |                   |       |                   |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                         | 12.84 | kW   | Tj = bivalent temperature                                                                                                        | COPd              | 3.30  | −                 |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                         | 12.84 | kW   | Tj = operation limit temperature                                                                                                 | COPd              | 3.30  | −                 |
| For air-to-water heat pumps:<br>Tj = − 15 °C (if TOL < − 20 °C )                                                                                                                                                                                                                                                                                                           | Pdh                         | NA    | kW   | For air-to-water heat pumps:<br>Tj = − 15 °C (if TOL < − 20 °C )                                                                 | COPd              | NA    | −                 |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                        | 2     | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL               | 2     | °C                |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                      | NA    | kW   | Cycling interval efficiency                                                                                                      | COPcyc            | NA    | −                 |
|                                                                                                                                                                                                                                                                                                                                                                            |                             |       |      | Heating water operating limit temperature                                                                                        | WTOL              | 65    | °C                |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                             |       |      | Supplementary heater                                                                                                             |                   |       |                   |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>            | 0.025 | kW   | Rated heat output (*)                                                                                                            | Psup              | 0.16  | kW                |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>             | 0.025 | kW   | Type of energy input                                                                                                             | Electric          |       |                   |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>             | 0.025 | kW   |                                                                                                                                  |                   |       |                   |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>             | 0     | kW   |                                                                                                                                  |                   |       |                   |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                             |       |      |                                                                                                                                  |                   |       |                   |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | variable                    |       |      | For air-to-water heat pumps: Rated air flow rate, outdoors                                                                       | −                 | 4003  | m <sup>3</sup> /h |
| Sound power level, outdoors                                                                                                                                                                                                                                                                                                                                                | L <sub>WA</sub>             | 64    | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | −                 | NA    | m <sup>3</sup> /h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>             | 2549  | kWh  |                                                                                                                                  |                   |       |                   |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                             |       |      |                                                                                                                                  |                   |       |                   |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | L                           |       |      | Water heating energy efficiency                                                                                                  | η <sub>wh</sub>   | 116   | %                 |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>           | 4.309 | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub> | NA    | kWh               |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                         | 883   | kWh  | Annual fuel consumption                                                                                                          | AFC               | NA    | GJ                |
| Contact details:<br>West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070                                                                                                                                                                                                                                                                                              |                             |       |      | Name of the supplier:<br>GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI                                                                 |                   |       |                   |
| (*) 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. |                             |       |      |                                                                                                                                  |                   |       |                   |





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