

**Information requirements**  
**(heat pump space heaters and heat pump combination heaters)**

|                                                                                                                                                                                                                                                                                                                                                                            |                                |        |      |                                                                                                                                  |                     |                |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------------|
| Model(s): AOHD54, AOHD45, AOHD40 + AIHD16                                                                                                                                                                                                                                                                                                                                  |                                |        |      |                                                                                                                                  |                     |                |                    |
| Air-to-water heat pump                                                                                                                                                                                                                                                                                                                                                     | Y                              |        |      | Low-temperature heat pump                                                                                                        | Y                   |                |                    |
| 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                         | 11,0   | kW   | Seasonal space heating energy efficiency                                                                                         | $\eta_s$            | 146,00         | %                  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj                                                                                                                                                                                                                                                                         |                                |        |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |                     |                |                    |
| Tj = - 7 °C                                                                                                                                                                                                                                                                                                                                                                | Pdh                            | 10,07  | kW   | Tj = - 7 °C                                                                                                                      | COPd                | 2,2            | -                  |
| Degradation coefficient (**)                                                                                                                                                                                                                                                                                                                                               | Cdh                            | x,xx   | —    |                                                                                                                                  |                     |                |                    |
| Tj = 2 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 6,5    | kW   | Tj = 2 °C                                                                                                                        | COPd                | 3,4            | -                  |
| Degradation coefficient (**)                                                                                                                                                                                                                                                                                                                                               | Cdh                            | x,xx   | —    |                                                                                                                                  |                     |                |                    |
| Tj = 7 °C                                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 4,2    | kW   | Tj = 7 °C                                                                                                                        | COPd                | 5,8            | -                  |
| Degradation coefficient (**)                                                                                                                                                                                                                                                                                                                                               | Cdh                            | x,xx   | —    |                                                                                                                                  |                     |                |                    |
| Tj = 12 °C                                                                                                                                                                                                                                                                                                                                                                 | Pdh                            | 2,3    | kW   | Tj = 12 °C                                                                                                                       | COPd                | 6,8            | -                  |
| Degradation coefficient (**)                                                                                                                                                                                                                                                                                                                                               | Cdh                            | x,xx   | —    |                                                                                                                                  |                     |                |                    |
| Tj = bivalent temperature                                                                                                                                                                                                                                                                                                                                                  | Pdh                            | 10,1   | kW   | Tj = bivalent temperature                                                                                                        | COPd                | 2,2            | -                  |
| Tj = operation limit temperature                                                                                                                                                                                                                                                                                                                                           | Pdh                            | 11,1   | kW   | Tj = operation limit temperature                                                                                                 | COPd                | 2,2            | -                  |
| For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C)                                                                                                                                                                                                                                                                                                            | Pdh                            | x,x    | kW   | For air-to-water heat pumps:<br>Tj = - 15 °C (if TOL < - 20 °C)                                                                  | COPd                | x,xx or<br>x,x | -                  |
| Bivalent temperature                                                                                                                                                                                                                                                                                                                                                       | Tbiv                           | -7,0   | °C   | For air-to-water heat pumps:<br>Operation limit temperature                                                                      | TOL                 | -10,0          | °C                 |
| Cycling interval capacity for heating                                                                                                                                                                                                                                                                                                                                      | Ppsych                         | x,x    | kW   | Cycling interval efficiency                                                                                                      | COPcyc or<br>PERcyc | x,xx or<br>x,x | -                  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                |        |      | Heating water operating limit temperature                                                                                        | WTOL                | 35,0           | °C                 |
| Power consumption in modes other than active mode                                                                                                                                                                                                                                                                                                                          |                                |        |      | Supplementary heater                                                                                                             |                     |                |                    |
| Off mode                                                                                                                                                                                                                                                                                                                                                                   | P <sub>OFF</sub>               | 0,030  | kW   | Rated heat output (*)                                                                                                            | P <sub>sup</sub>    | 3,0            | kW                 |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                        | P <sub>TO</sub>                | 0,010  | kW   | Type of energy input                                                                                                             |                     |                |                    |
| Standby mode                                                                                                                                                                                                                                                                                                                                                               | P <sub>SB</sub>                | 0,030  | kW   |                                                                                                                                  |                     |                |                    |
| Crankcase heater mode                                                                                                                                                                                                                                                                                                                                                      | P <sub>CK</sub>                | 0,040  | kW   |                                                                                                                                  |                     |                |                    |
| Other items                                                                                                                                                                                                                                                                                                                                                                |                                |        |      |                                                                                                                                  |                     |                |                    |
| Capacity control                                                                                                                                                                                                                                                                                                                                                           | fixed/variable                 |        |      | For air-to-water heat pumps:<br>Rated air flow rate, outdoors                                                                    | —                   | 6000-<br>6600  | m <sup>3</sup> / h |
| Sound power level, indoors/outdoors                                                                                                                                                                                                                                                                                                                                        | L <sub>WA</sub>                | 70,0   | dB   | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger                                  | —                   | x              | m <sup>3</sup> / h |
| Annual energy consumption                                                                                                                                                                                                                                                                                                                                                  | Q <sub>HE</sub>                | 6100,0 | kWh  |                                                                                                                                  |                     |                |                    |
| For heat pump combination heater:                                                                                                                                                                                                                                                                                                                                          |                                |        |      |                                                                                                                                  |                     |                |                    |
| Declared load profile                                                                                                                                                                                                                                                                                                                                                      | x                              |        |      | Water heating energy efficiency                                                                                                  | $\eta_{wh}$         | x              | %                  |
| Daily electricity consumption                                                                                                                                                                                                                                                                                                                                              | Q <sub>elec</sub>              | x,xxx  | kWh  | Daily fuel consumption                                                                                                           | Q <sub>fuel</sub>   | x,xxx          | kWh                |
| Annual electricity consumption                                                                                                                                                                                                                                                                                                                                             | AEC                            | x      | kWh  | Annual fuel consumption                                                                                                          | AFC                 | x              | GJ                 |
| Contact details:<br>Marquès de Sentmenat 97, 08029 Barcelona (Spain)                                                                                                                                                                                                                                                                                                       |                                |        |      | Name of the supplier:<br>EUROFRED, S.A.                                                                                          |                     |                |                    |
| (*) 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. |                                |        |      |                                                                                                                                  |                     |                |                    |