

# AMICUS LAHP-1802LT PRODUCT FICHE

According regulations 811/2013 and 812/2013

| Model                                      |        | LAHP-1802LT |                      |
|--|--------|-------------|----------------------|
| Energy class                               | N/A    |             |                      |
| Air-to-water heat pump                     | Yes    |             |                      |
| Low-temperature heat pump                  | Yes    |             |                      |
| Supplementary heater                       | No     |             |                      |
| Heat pump combination heater               | No     |             |                      |
|  |        |             |                      |
| Item                                       | Symbol | Value       | Units of measurement |
| Rated heat output                          | Prated | 110.1       | [kW]                 |
| Tj = -7 [°C]                               | Pdh    | 97.37       | [kW]                 |
| Tj = 2 [°C]                                | Pdh    | 71.48       | [kW]                 |
| Tj = 7 [°C]                                | Pdh    | 85.93       | [kW]                 |
| Tj = 12 [°C]                               | Pdh    | 97.86       | [kW]                 |
| Tj = -7 [°C]                               | Pdh    | 97.37       | [kW]                 |
| Tj = -9 [°C]                               | Pdh    | 90.36       | [kW]                 |
| Tbivalent                                  | Tbiv   | -7          | [°C]                 |
| Cycling interval capacity for heating      | Pcych  | -           | [kW]                 |
| Degradation coefficient                    | Cdh    | 0.9475      | [-]                  |
| Power consumption in off mode              | Poff   | 0.02        | [kW]                 |
| Power consumption in thermostat-off mode   | Pto    | 0.5386      | [kW]                 |
| Power consumption in standby mode          | Psb    | 0.02        | [kW]                 |
| Power consumption in crankcase heater mode | Pck    | 0.2         | [kW]                 |
| Capacity control                           |        | Step        |                      |
| Sound power level, indoor/outdoor measured | Lwa    | 0/87        | [dB(A)]              |
| Emissions of nitrogen oxides               | NOx    | 0           | [mg/kWh]             |
| Seasonal space heating energy efficiency   | ηs     | 150.900     | [%]                  |
| Tj = -7 [°C]                               | COPd   | 2.385       | [-]                  |
| Tj = 2 [°C]                                | COPd   | 3.797       | [-]                  |
| Tj = 7 [°C]                                | COPd   | 5.543       | [-]                  |
| Tj = 12 [°C]                               | COPd   | 6.924       | [-]                  |
| Tj = -7 [°C]                               | COPd   | 2.385       | [-]                  |
| Tj = -9 [°C]                               | COPd   | 2.180       | [-]                  |
| Operation limit temperature                | TOL    | -16         | [°C]                 |
| Cycling interval efficiency                | COPcyc | -           | [-]                  |
| Heating water operating limit temperature  | WTOL   | 60          | [°C]                 |
| Air flow rate                              |        | 57267       | [m³/h]               |
| Heating energy demand                      |        | 154373      | [kWh]                |
| Total electrical consumption               |        | 40123       | [kWh]                |
| SCOP                                       |        | 3.848       | [-]                  |
| Climatic condition                         |        | Average     |                      |

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