

# AMICUS LAHP-602LT PRODUCT FICHE

According regulations 811/2013 and 812/2013

| Model                                      |        | LAHP-602LT |                      |
|--------------------------------------------|--------|------------|----------------------|
| Energy class                               | 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 | 39.44      | [kW]                 |
| Tj = -7 [°C]                               | Pdh    | 34.89      | [kW]                 |
| Tj = 2 [°C]                                | Pdh    | 28.99      | [kW]                 |
| Tj = 7 [°C]                                | Pdh    | 34.64      | [kW]                 |
| Tj = 12 [°C]                               | Pdh    | 38.74      | [kW]                 |
| Tj = -7 [°C]                               | Pdh    | 34.89      | [kW]                 |
| Tj = -9 [°C]                               | Pdh    | 32.7       | [kW]                 |
| Tbivalent                                  | Tbiv   | -7         | [°C]                 |
| Cycling interval capacity for heating      | Pcych  | -          | [kW]                 |
| Degradation coefficient                    | Cdh    | 0.9237     | [-]                  |
| Power consumption in off mode              | Poff   | 0.02       | [kW]                 |
| Power consumption in thermostat-off mode   | Pto    | 0.2054     | [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    | 0/76       | [dB(A)]              |
| Emissions of nitrogen oxides               | NOx    | 0          | [mg/kWh]             |
| Seasonal space heating energy efficiency   | ηs     | 162.000    | [%]                  |
| Tj = -7 [°C]                               | COPd   | 2.545      | [-]                  |
| Tj = 2 [°C]                                | COPd   | 4.332      | [-]                  |
| Tj = 7 [°C]                                | COPd   | 5.955      | [-]                  |
| Tj = 12 [°C]                               | COPd   | 7.132      | [-]                  |
| Tj = -7 [°C]                               | COPd   | 2.545      | [-]                  |
| Tj = -9 [°C]                               | COPd   | 2.341      | [-]                  |
| Operation limit temperature                | TOL    | -16        | [°C]                 |
| Cycling interval efficiency                | COPcyc | -          | [-]                  |
| Heating water operating limit temperature  | WTOL   | 60         | [°C]                 |
| Air flow rate                              |        | 17189      | [m³/h]               |
| Heating energy demand                      |        | 55333      | [kWh]                |
| Total electrical consumption               |        | 13414      | [kWh]                |
| SCOP                                       |        | 4.125      | [-]                  |
| Climatic condition                         |        | Average    |                      |

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