

Information requirements for heat pumps

Energy Index: SCOP

Regulations: calculated according to commision regulation (EU) 2013/813, implementing the directive of the

european commission 2009/125/ec "ecodesign".

Climate: Average

Source type: Outdoor air **User type:** Low temperature **User flow:** Constant user flow rate

| User flow: Constant user f | flow rate | | | | | | |
|--|---------------------------------|---------------|---------------------------------------|---|--------------------|-----------------------|----------|
| Model: LAHP-3214LT454 | | | | | | | |
| Outdoor side heat exchanger of | | | | | | | |
| Indoor side heat exchanger of h Indication if the heater is equip | | | haatari N | <u> </u> | | | |
| If applicable: driver of compress | • | | y neater. IV | 0 | | | |
| | | | ason, paran | neters for the warmer and colde | r heating s | seasons are optional. | |
| item | symb | value | unit | item | symb | value | unit |
| Rated heating capacity | P _{rated,h} | 211 | kW | Seasonal space heating energy efficiency | $\eta_{s,h}$ | 159 | % |
| Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature <i>Tj</i> | | | | Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures <i>Tj</i> | | | |
| <i>Tj</i> = -7°C | Pdh | 187 | kW | <i>Tj</i> = -7°C | COP _d | 2.37 | % |
| Tj = 2°C | Pdh | 114 | kW | Tj = 2°C | COP _d | 3.97 | % |
| <i>Tj</i> = 7°C | Pdh | 86.0000 | kW | <i>Tj</i> = 7°C | COP _d | 5.58 | % |
| <i>Tj</i> = 12°C | Pdh | 98.0000 | kW | <i>Tj</i> = 12°C | COP _d | 7.15 | % |
| Tbiv = -7°C | Pdh | 187 | kW | <i>Tj</i> = -7°C | COP _d | 2.37 | % |
| <i>TOL</i> = -10°C | Pdh | 169 | kW | <i>Tj</i> = -10°C | COP _d | 2.07 | % |
| | 7 01. | 100 | | 1, 200 | CO. a | 2.07 | /* |
| For air-to-water heat pumps: Operation limit temperature <i>Tj</i> = -°C | Pdh | - | kW | For air-to-water heat pumps: <i>Tj</i> = +-°C | COP _d | - | % |
| Bivalent temperature | T _{biv} | -7 | °C | For air-to-water heat pumps: Operation limit temperature | T ol | -10 | °C |
| Cycling interval capacity for heating | P cych | - | kW | Cycling interval efficiency | COP _{cyc} | - | % |
| Degradation co-efficient chillers(*) | C _{dh} | 0.98 | | Heating water operating limit temperature | WTol | 60.0000 | °C |
| Power consumption | n in modes | other than 'a | ctive mode | Supplementary heate | er | <u> </u> | - |
| Off mode | P _{OFF} | 0.02 | kW | Back-up heating capacity (*) | elbu | - | kW |
| Thermostat-off mode | P _{TO} | 1.10 | kW | Type of energy input | | <u>-</u> | <i>.</i> |
| Crankcase heater mode | P _{CK} | 0.22 | kW | Standby mode | P _{SB} | 0.15 | kW |
| Other items | | | | | | | |
| Capacity control | staged | | | For air-to-air heat pumps: air flow rate, outdoor measured | | 98888 | m³/h |
| Sound power level, indoor/outdoor measured Emissions of nitrogen oxides (if applicable) | L _{WA} NOx(** *) | 0/91.5 0.0 | dB mg/kW h fuel input GCV | For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger | | - | m³/h |
| GWP of the refrigerant | | 466 | kg CO ₂ eq (100 years) | | | | |
| Contact details | prova | | | _! | | , | .1 |
| (*) | | | | | | | |

(*)

(***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

^(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.