**PRODUCT FICHE**
NØRDIS air-to-water heat pump

Energy labelling regulation: (EU)811/2013
Ecodesign regulation: (EU)813/2013

## Technical parameters

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|---|---|
| Model(s): | Outdoor unit: HLE07MONO1S |
| Air-to-water heat pump: | YES |
| Water-to-water heat pump: | NO |
| Brine-to-water heat pump: | NO |
| Low-temperature heat pump: | NO |
| Equipped with a supplementary heater: | YES |
| Heat pump combination heater: | NO |
| Declared climate condition: | AVERAGE |
| Parameters are declared for medium temperature application. | |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|---|---|---|---|---|---|---|---|
| Rated heat output (*) | $P_{rated}$ | *6.80* | kW | Seasonal space heating energy efficiency | $\eta_s$ | *150* | % |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature $T_j$ | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature $T_j$ | | | |
| $T_j$ = – 7 °C | $P_{dh}$ | *5.90* | kW | $T_j$ = – 7 °C | $COP_d$ | *2.34* | - |
| $T_j$ = + 2 °C | $P_{dh}$ | *3.90* | kW | $T_j$ = + 2 °C | $COP_d$ | *3.86* | - |
| $T_j$ = + 7 °C | $P_{dh}$ | *2.60* | kW | $T_j$ = + 7 °C | $COP_d$ | *5.15* | - |
| $T_j$ = + 12 °C | $P_{dh}$ | *1.60* | kW | $T_j$ = + 12 °C | $COP_d$ | *7.32* | - |
| $T_j$ = bivalent temperature | $P_{dh}$ | *5.90* | kW | $T_j$ = bivalent temperature | $COP_d$ | *2.34* | - |
| $T_j$ = operation limit temperature | $P_{dh}$ | *5.50* | kW | $T_j$ = operation limit temperature | $COP_d$ | *2.01* | - |
| For air-to-water heat pumps: $T_j$ = – 15 °C (if TOL<-20°C) | $P_{dh}$ | - | kW | For air-to-water heat pumps: $T_j$ = – 15 °C (if TOL<-20°C) | $COP_d$ | - | - |
| Bivalent temperature | $T_{biv}$ | *-7* | °C | For air-to-water heat pumps: Operation limit temperature | TOL | *-10* | °C |
| Cycling interval capacity for heating | $P_{cych}$ | - | kW | Cycling interval efficiency | $COP_{cyc}$ | - | - |
| Degradation co-efficient (**) | $C_{dh}$ | *0.99* | - | Heating water operating limit temperature | WTOL | *75* | °C |

| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
|---|---|---|---|---|---|---|---|
| Off mode | $P_{OFF}$ | *0.007* | kW | Rated heat output (*) | $P_{sup}$ | *1.1* | kW |
| Thermostat-off mode | $P_{TO}$ | *0.025* | kW | | | | |
| Standby mode | $P_{SB}$ | *0.007* | kW | Type of energy input | *Electrical* | | |
| Crankcase heater mode | $P_{CK}$ | *0.000* | kW | | | | |

| Other items | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacity control | *Variable* | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | *2650* | $m^3/h$ |
| Sound power level, indoors/ outdoors | $L_{WA}$ | *54* | dB | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ |
| Annual energy consumption | $Q_{HE}$ | *3589* | kWh | | | | |

| For heat pump combination heater: | | | | | | | |
|---|---|---|---|---|---|---|---|
| Declared load profile | - | | | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| Daily electricity consumption | $Q_{elec}$ | - | kWh | Daily fuel consumption | $Q_{fuel}$ | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |

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| Contact details | NØRDIS EUROPE SP. Z O.O.<br>Opolska 38 55-011 Siechnice, Poland |

(*) 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($T_j$).
(**) If $C_{dh}$ is not determined by measurement then the default degradation coefficient is $C_{dh}$ = 0,9.