

Product information

(in accordance with EU Regulation No. 813/2013)

Heat pump, 35°C supply temperature

Model

HPR 500 Deluxe

| | |
|-----------------------|-----|
| Air/water heat pump | yes |
| Water/water heat pump | no |
| Brine/water heat pump | no |

| | |
|-------------------------------------|----|
| Low-temperature heat pump | no |
| Equipped with an auxiliary heater | no |
| Multifunction heater with heat pump | no |

| Parameter | Symbol | Value | Unit |
|---|------------------|-------|---------|
| Rated thermal power (*) | Prated | 9 | kW |
| Declared heating capacity at part load at room temperature of 20°C and outdoor temperature T_j | | | |
| T _j = -7 °C | P _{d,h} | 9,08 | kW |
| T _j = +2 °C | P _{d,h} | 10,42 | kW |
| T _j = +7 °C | P _{d,h} | 13,12 | kW |
| T _j = +12 °C | P _{d,h} | 14,79 | kW |
| T _j = bivalent temperature | P _{d,h} | 9,05 | kW |
| T _j = limiting operating temperature | P _{d,h} | 7,49 | kW |
| For air/water heat pumps: T _j = -15 °C (if TOL < -20°C) | P _{d,h} | - | kW |
| Bivalent temperature | T _{biv} | -8 | °C |
| Performance during the cycle period in the interval for heating | P _{cyh} | - | kW |
| Loss ratio (**) | C _{d,h} | 0,9 | - |
| Power consumption in modes other than active | | | |
| Shutdown mode | P _{OFF} | 0,012 | kW |
| Thermostat off mode | P _{TO} | 0,012 | kW |
| Standby power consumption | P _{SB} | 0,012 | kW |
| In crankcase heater off mode | P _{CK} | 0,000 | kW |
| Other parameters | | | |
| Capacity control | fixed output | | |
| Sound power level indoors/outdoors | L _{WA} | -/54 | dB |
| Emissions of nitrogen oxides | NOx | - | mg/ kWh |
| Annual energy consumption | QHE | 4584 | kWh |

| Parameter | Symbol | Value | Unit |
|---|-------------------|-------|-------------------|
| Seasonal energy efficiency of space heating | η _s | 152 | % |
| Declared efficiency rate or primary energy consumption rate at part load at room temperature of 20°C and outdoor temperature T_j | | | |
| T _j = -7 °C | COP _d | 3,13 | - |
| T _j = +2 °C | COP _d | 3,85 | - |
| T _j = +7 °C | COP _d | 4,85 | - |
| T _j = +12 °C | COP _d | 5,9 | - |
| T _j = bivalent temperature | COP _d | 3,12 | - |
| T _j = limiting operating temperature | COP _d | 2,65 | - |
| For air/water heat pumps: T _j = -15 °C (if TOL < -20°C) | COP _d | - | - |
| For air/water heat pumps: Operating temperature limit | TOL | -15 | °C |
| Energy efficiency of the cycle | COP _{cy} | - | - |
| Operating temperature limit for water heating | WTOL | 65 | °C |
| Additional heater | | | |
| Rated thermal power (*) | P _{sup} | 6 | kW |
| Type of energy consumed | electric | | |
| For air/water heat pumps: Rated air flow, outdoor | - | 4000 | m ³ /h |
| For brine/water heat pumps: Nominal flow rate of brine or water, external heat exchanger | - | - | m ³ /h |

Contact details

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(*) For heat pump space heaters and multifunction heat pump heaters, rated thermal output Prated is equal to the design load for heating mode Pdesignh, and the rated thermal output of auxiliary heater Psup is equal to the additional heating capacity for heating mode sup(Tj).

(**) If the Cdh factor is not determined by measurement, the loss factor takes the default value of Cdh=0.9. Parameters are given for medium-temperature applications, except for low-temperature pumps. For low-temperature heat pumps, parameters are given for low-temperature applications. All parameters are given for temperate climate conditions.

Data: 2023-06-06

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Product information

(in accordance with EU Regulation No. 813/2013)

Heat pump, 55°C supply temperature

Model

HPR 500 Deluxe

| | |
|-----------------------|-----|
| Air/water heat pump | yes |
| Water/water heat pump | no |
| Brine/water heat pump | no |

| | |
|-------------------------------------|----|
| Low-temperature heat pump | no |
| Equipped with an auxiliary heater | no |
| Multifunction heater with heat pump | no |

| Parameter | Symbol | Value | Unit |
|---|------------------|-------|---------|
| Rated thermal power (*) | Prated | 9 | kW |
| Declared heating capacity at part load at room temperature of 20°C and outdoor temperature T_j | | | |
| T _j = -7 °C | P _{d,h} | 9,02 | kW |
| T _j = +2 °C | P _{d,h} | 10,09 | kW |
| T _j = +7 °C | P _{d,h} | 10,90 | kW |
| T _j = +12 °C | P _{d,h} | 12,27 | kW |
| T _j = bivalent temperature | P _{d,h} | 9,05 | kW |
| T _j = limiting operating temperature | P _{d,h} | 7,46 | kW |
| For air/water heat pumps: T _j = -15 °C (if TOL < -20°C) | P _{d,h} | - | kW |
| Bivalent temperature | T _{biv} | -8 | °C |
| Performance during the cycle period in the interval for heating | P _{cyh} | - | kW |
| Loss ratio (**) | C _{d,h} | 0,9 | - |
| Power consumption in modes other than active | | | |
| Shutdown mode | P _{OFF} | 0,012 | kW |
| Thermostat off mode | P _{TO} | 0,012 | kW |
| Standby power consumption | P _{SB} | 0,012 | kW |
| In crankcase heater off mode | P _{CK} | 0,000 | kW |
| Other parameters | | | |
| Capacity control | fixed output | | |
| Sound power level indoors/outdoors | L _{WA} | -/54 | dB |
| Emissions of nitrogen oxides | NOx | - | mg/ kWh |
| Annual energy consumption | QHE | 5511 | kWh |

| Parameter | Symbol | Value | Unit |
|---|--------------------|-------|-------------------|
| Seasonal energy efficiency of space heating | η _s | 126 | % |
| Declared efficiency rate or primary energy consumption rate at part load at room temperature of 20°C and outdoor temperature T_j | | | |
| T _j = -7 °C | COP _d | 2,31 | - |
| T _j = +2 °C | COP _d | 3,25 | - |
| T _j = +7 °C | COP _d | 4,19 | - |
| T _j = +12 °C | COP _d | 5,50 | - |
| T _j = bivalent temperature | COP _d | 3,12 | - |
| T _j = limiting operating temperature | COP _d | 2,05 | - |
| For air/water heat pumps: T _j = -15 °C (if TOL < -20°C) | COP _d | - | - |
| For air/water heat pumps: Operating temperature limit | TOL | -15 | °C |
| Energy efficiency of the cycle | COP _{cyh} | - | - |
| Operating temperature limit for water heating | WTOL | 65 | °C |
| Additional heater | | | |
| Rated thermal power (*) | P _{sup} | 6 | kW |
| Type of energy consumed | electric | | |
| For air/water heat pumps: Rated air flow, outdoor | - | 4000 | m ³ /h |
| For brine/water heat pumps: Nominal flow rate of brine or water, external heat exchanger | - | - | m ³ /h |

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(**) If the Cdh factor is not determined by measurement, the loss factor takes the default value of Cdh=0.9. Parameters are given for medium-temperature applications, except for low-temperature pumps. For low-temperature heat pumps, parameters are given for low-temperature applications. All parameters are given for temperate climate conditions.

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