Product information

Model

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

Heat pump, 35°C supply temperature

HPR 500 Deluxe

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

Parameter	Symbol	Value	Unit
Rated thermal power (*)	Prated	10	kW
Declared heating capacity at part load at room temperature of 20°C and outdoor temperature T _j			
Tj = -7 °C	Pdh	9,19	kW
Tj = +2 °C	Pdh	10,08	kW
Tj = +7 °C	Pdh	13,37	kW
Tj = +12 °C	Pdh	15,37	kW
Tj = bivalent temperature	Pdh	9,19	kW
Tj = limiting operating temperature	Pdh	8,44	kW
For air/water heat pumps: Tj = -15 °C (if TOL < -20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-7	°C
Performance during the cycle period in the interval for heating	P_{cych}	-	kW
Loss ratio (**)	Cdh	0,9	-
Power consumption in	modes oth	er than acti	ve
Shutdown mode	P _{OFF}	0,010	kW
Thermostat off mode	P _{TO}	0,013	kW
Standby power consumption	P _{SB}	0,013	kW
In crankcase heater off mode	Р _{ск}	0,000	kW
Other parameters			
Capacity control	fixed output		
Sound power level indoors/outdoors	L _{WA}	-/58	dB
Emissions of nitrogen oxides	NOx	-	mg/ kWh
Annual energy consumption	QHE	5323	kWh

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

Parameter	Symbol	Value	Unit
Seasonal energy efficiency of space heating	n,	158	%
Declared efficiency rate or primary energy consumption rate at part load at room temperature of 20°C and outdoor temperature T _j			
Tj = -7 °C	COPd	3,29	-
Tj = +2 °C	COPd	3,76	-
Tj = +7 °C	COPd	5,03	-
Tj = +12 °C	COPd	5,72	-
Tj = bivalent temperature	COPd	3,29	-
Tj = imiting operating temperature	COPd	3,13	-
For air/water heat pumps: Tj = -15 °C (if TOL < -20°C)	COPd	-	-
For air/water heat pumps: Operating temperature limit	TOL	-10	°C
Energy efficiency of the cycle	COPcyc	-	-
Operating temperature limit for water heating	WTOL	65	°C
Additio	nal heater		
Rated thermal power (*)	P _{sup}	-	kW
Type of energy consumed	-		
For air/water heat pumps: Rated air flow, outdoor	-	3800	m³/h
For brine/water heat pumps: No- minal flow rate of brine or water, external heat exchanger	-	-	m³/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.

Product information

Model

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

Heat pump, 55°C supply temperature

HPR 500 Deluxe

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

Parameter	Symbol	Value	Unit
Rated thermal power (*)	Prated	10	kW
Declared heating capacity at part load at room temperature of 20°C and outdoor temperature ${\rm T_j}$			
Tj = -7 °C	Pdh	8,84	kW
Tj = +2 °C	Pdh	10,13	kW
Tj = +7 °C	Pdh	13,21	kW
Tj = +12 °C	Pdh	15,12	kW
Tj = bivalent temperature	Pdh	8,84	kW
Tj = limiting operating temperature	Pdh	8,25	kW
For air/water heat pumps: Tj = -15 °C (if TOL < -20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-7	°C
Performance during the cycle period in the interval for heating	P _{cych}	-	kW
Loss ratio (**)	Cdh	0,9	-
Power consumption in	modes oth	er than acti	ve
Shutdown mode	P _{OFF}	0,010	kW
Thermostat off mode	P _{TO}	0,013	kW
Standby power consumption	P _{SB}	0,013	kW
In crankcase heater off mode	Р _{ск}	0,000	kW
Other p	arameters		
Capacity control	fixed output		
Sound power level indoors/outdoors	L _{WA}	-/58	dB
Emissions of nitrogen oxides	NOx	-	mg/kWh
Annual energy consumption	QHE	6089	kWh

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

Parameter	Symbol	Value	Unit
Seasonal energy efficiency of space heating	η	133	%
Declared efficiency rate or primary energy consumption rate at part load at room temperature of 20°C and outdoor temperature T _j			
Tj = -7 °C	COPd	2,57	-
Tj = +2 °C	COPd	3,23	-
Tj = +7 °C	COPd	4,17	-
Tj = +12 °C	COPd	5,06	-
Tj = bivalent temperature	COPd	2,57	-
Tj = limiting operating temperature	COPd	2,34	-
For air/water heat pumps: Tj = -15 °C (if TOL < -20°C)	COPd	-	-
For air/water heat pumps: Operating temperature limit	TOL	-10	°C
Energy efficiency of the cycle	COPcyc	-	-
Operating temperature limit for water heating	WTOL	65	°C
Additio	nal heater		
Rated thermal power (*)	P _{sup}	-	kW
Type of energy consumed		-	
For air/water heat pumps: Rated air flow, outdoor	-	3800	m³/h
For brine/water heat pumps: No- minal flow rate of brine or water, external heat exchanger	-	-	m³/h

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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.