

Technical parameters for heat pumps space heaters

Model				Technical parameters for heat pumps operation			
Air-to-water heat pump:				no			
Water-to-water heat pump:				yes			
Brine-to-water heat pump:				no			
Low-temperature heat pump: (water temperature 35 °C)				yes			
Equipped with a supplementary heater:				no			
Heat pump combination heater:				no			
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps.							
For low-temperature heat pumps, parameters shall be declared for low-temperature application.							
Parameters shall be declared for average climate condition.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat pump	Pdesign	31,8	kW	Seasonal space heating energy efficiency	ηs	154	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	28,2	kW	Tj = -7°C	COPd	4,7	
Tj = +2°C	Pdh	26,9	kW	Tj = +2°C	COPd	4,5	
Tj = +7°C	Pdh	26,2	kW	Tj = +7°C	COPd	4,3	
Tj = +12°C	Pdh	26,2	kW	Tj = +12°C	COPd	4,6	
Tj = bivalent temperature	Pdh	25,7	kW	Tj = bivalent temperature	COPd	4,7	
Tj = operation limit temperature	Pdh	28,2	kW	Tj = operation limit temperature	COPd	4,7	
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	
Degradation co-efficient	Cdh	0,9	-	Heating water operating limit temperature	WTOL	40	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0,02	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTo	0,48	kW	Type of energy input	-		
Standby mode	PSB	0,02	kW				
Crankcase heater mode	PCK	0,06	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m3/h
Sound power level, Indoors/outdoors	LWA	65	dB(A)	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	6,35	m3/h
Annual energy consumption	QHE	16283	kWh				
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