Manufacturer: AWE WÄRMEPUMPEN

Model: ESW 10

Brine - to-water heat pump

Low-temperature heat pump: yes

Equipped with a supplementary heater: no

Heat pump combination heater: no

Application: medium

Climate: average

Item	Symbol	Value	Unit	
Rated heat output *	Prated	10	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature <i>T_j</i>				
<i>T_j</i> = - 7 °C	Pdh	10,0	kW	
<i>T_j</i> = + 2 °C	Pdh	10,7	kW	
<i>T_j</i> = + 7 °C	Pdh	11,1	kW	
<i>T_j</i> = + 12 °C	Pdh	11,5	kW	
T_j = bivalent temperature	Pdh	9,8	kW	
T_j = operation limit	Pdh	9,8	kW	
For air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}\text{C}$)	Pdh	9,8	kW	
Bivalent temperature	T _{biv}	-10	°C	
Power input "compressor off"		0	W	
Power consumption in modes other than active mode				
Off mode	P _{OFF}	0	W	
Thermostat-off mode	P _{TO}	0	W	
Standby mode	P_{SB}	0	W	
Crankcase heater mode	P _{CK}	0	W	
Other items				
Capacity control	fixed			
Sound power level, indoors/outdoors	L _{WA}	40	dB	
Annual energy consumption	Q _{HE}	4884	kWh	

ltem	Symbol	Value	Unit
Seasonal space heating energy efficiency	ης	157	%
Declared coefficient of perform part load at indoor temperature T_i			
<i>T_j</i> = - 7 °C	COPd	3,13	
<i>T_j</i> = + 2 °C	COPd	4,52	
<i>T_j</i> = + 7 °C	COPd	5,91	
<i>T_j</i> = + 12 ℃	COPd	8,28	
T_j = bivalent temperature	COPd	2,84	
T_j = operation limit	COPd	2,84	
For air-to-water heat pumps: <i>T_j</i> = - 15 °C (if <i>TOL</i> < - 20 °C)	COPd	2,84	
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Heating water operating limit temperature	WTOL	55	°C
Supplementary heater			
Rated heat output *	P _{sup}	0,00	kW
Type of energy input	electricity		
For air-to-water heat pumps: Rated air flow rate, outdoors	-		m³/h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	2600	l/h

Contact details: AWE WÄRMEPUMPEN,

^{*} 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(Tj)*.