Manufacturer: AWE WÄRMEPUMPEN

Model: ESW 21

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

ltem	Symbol	Value	Unit	
Rated heat output *	Prated	20	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				
<i>T<sub>j</sub></i> = - 7 °C	Pdh	20,1	kW	
<i>T<sub>j</sub></i> = + 2 °C	Pdh	22,0	kW	
<i>T<sub>j</sub></i> = + 7 °C	Pdh	23,0	kW	
<i>T<sub>j</sub></i> = + 12 °C	Pdh	24,1	kW	
$T_j$ = bivalent temperature	Pdh	19,5	kW	
$T_j$ = operation limit	Pdh	19,5	kW	
For air-to-water heat pumps: $T_j = -15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ )	Pdh	19,5	kW	
Bivalent temperature	T <sub>biv</sub>	-10	°C	
Power input "compressor off"		0	W	
Power consumption in modes other than active mode				
Off mode	P <sub>OFF</sub>	0	W	
Thermostat-off mode	P <sub>TO</sub>	0	W	
Standby mode	P <sub>SB</sub>	0	W	
Crankcase heater mode	P <sub>CK</sub>	0	W	
Other items				
Capacity control	fixed			
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 -	dB	
Annual energy consumption	Q <sub>HE</sub>	7590	kWh	

ltem	Symbol	Value	Unit
Seasonal space heating energy efficiency	ης	205	%
Declared coefficient of perform part load at indoor temperature $T_i$			
<i>T<sub>j</sub></i> = - 7 °C	COPd	3,26	
<i>T<sub>j</sub></i> = + 2 °C	COPd	5,58	
<i>T<sub>j</sub></i> = + 7 °C	COPd	8,75	
<i>T<sub>j</sub></i> = + 12 ℃	COPd	18,13	
$T_j$ = bivalent temperature	COPd	2,84	
$T_j$ = operation limit	COPd	2,84	
For air-to-water heat pumps: <i>T<sub>j</sub></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 <sub>sup</sub>	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	-	4500	l/h

Contact details: AWE WÄRMEPUMPEN,

<sup>\*</sup> 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)*.