Manufacturer:	**AWE WÄRMEPUMPEN**
Model:	**ESW 42**
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*	39	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 °C	*Pdh*	41,0	kW
T_j = + 2 °C	*Pdh*	47,0	kW
T_j = + 7 °C	*Pdh*	50,5	kW
T_j = + 12 °C	*Pdh*	53,9	kW
T_j = bivalent temperature	*Pdh*	39,1	kW
T_j = operation limit	*Pdh*	39,1	kW
For air-to-water heat pumps: T_j = - 15 °C (if *TOL* < - 20 °C)	*Pdh*	39,1	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}	5161	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	618	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 °C	*COPd*	3,59	
T_j = + 2 °C	*COPd*	11,43	
T_j = + 7 °C	*COPd*	-676,07	
T_j = + 12 °C	*COPd*	-12,65	
T_j = bivalent temperature	*COPd*	2,84	
T_j = operation limit	*COPd*	2,84	
For air-to-water heat pumps: T_j = - 15 °C (if *TOL* < - 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	-		m^3/h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	10300	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)*.

The calculation tool was made by Bundesverband Wärmepumpe BWP e.V.