Manufacturer:	**AWE WÄRMEPUMPEN**
Model:	**ELW 42**
Air - 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*	42	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 °C	*Pdh*	31,9	kW
T_j = + 2 °C	*Pdh*	38,2	kW
T_j = + 7 °C	*Pdh*	42,3	kW
T_j = + 12 °C	*Pdh*	46,2	kW
T_j = bivalent temperature	*Pdh*	33,8	kW
T_j = operation limit	*Pdh*	29,1	kW
For air-to-water heat pumps: T_j = - 15 °C (if *TOL* < - 20 °C)	*Pdh*	24,9	kW
Bivalent temperature	T_{biv}	-5	°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 34	dB
Annual energy consumption	Q_{HE}	38994	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	86	%
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*	2,54	
T_j = + 2 °C	*COPd*	2,57	
T_j = + 7 °C	*COPd*	2,48	
T_j = + 12 °C	*COPd*	2,40	
T_j = bivalent temperature	*COPd*	2,78	
T_j = operation limit	*COPd*	2,24	
For air-to-water heat pumps: T_j = - 15 °C (if *TOL* < - 20 °C)	*COPd*	1,81	
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}	12,79	kW
Type of energy input	electricity		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m^3/h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-		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.