Manufacturer: AWE WÄRMEPUMPEN	
Model: ELW 45	
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	ltem	Symbol	Value	Unit	
Rated heat output *	Prated	46	kW	Seasonal space heating energy efficiency	η _S	86	%	
Declared capacity for heating for the ting for the temperature 20 °C and outdoor				Declared coefficient of perform part load at indoor temperature <i>T_i</i>				
<i>T_j</i> = − 7 °C	Pdh	34,8	kW	$T_j = -7 \circ C$	COPd	2,66		
$T_j = +2 \circ C$	Pdh	41,9	kW	<i>T_j</i> = + 2 ℃	COPd	2,60		
<i>T_j</i> = + 7 °C	Pdh	45,0	kW	<i>T_j</i> = + 7 ℃	COPd	2,42		
<i>T_j</i> = + 12 ℃	Pdh	50,8	kW	<i>T_j</i> = + 12 ℃	COPd	2,32		
<i>T_j</i> = bivalent temperature	Pdh	37,1	kW	$T_j =$ bivalent temperature	COPd	2,90		
$T_j = $ operation limit	Pdh	31,4	kW	$T_j = $ operation limit	COPd	2,34		
For air-to-water heat pumps: $T_j = -15 \circ C$ (if $TOL < -20 \circ C$)	Pdh	26,2	kW	For air-to-water heat pumps: <i>T_j</i> = − 15 °C (if <i>TOL</i> < − 20 °C)	COPd	1,88		
Bivalent temperature	T _{biv}	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Power input "compressor off"		0	W	Heating water operating limit temperature	WTOL	55	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	0	W	Rated heat output *	P _{sup}	14,52	kW	
Thermostat-off mode	P _{TO}	0	W		electricity			
Standby mode	P _{SB}	0	W	Type of energy input				
Crankcase heater mode	P _{CK}	0	W					
Other items					•			
Capacity control		fixed		For air-to-water heat pumps:	-	6500	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 34	dB	Rated air flow rate, outdoors For water-/brine-to-water heat				
Annual energy consumption	Q _{HE}	42585	kWh	pumps: Rated brine or water flow rate, outdoor heat exchanger	- I/		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.