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: low
Climate: average

Item	Symbol	Value	Unit	
Rated heat output *	Prated	49	kW	
Declared capacity for heating for part load at indoor temperature 20 $^{\circ}$ C and outdoor temperature T_{j}				
<i>T_j</i> = - 7 °C	Pdh	37,2	kW	
<i>T_j</i> = + 2 ℃	Pdh	45,4	kW	
<i>T_j</i> = + 7 °C	Pdh	50,7	kW	
<i>T_j</i> = + 12 °C	Pdh	57,6	kW	
T_j = bivalent temperature	Pdh	39,6	kW	
T_j = operation limit	Pdh	33,6	kW	
For air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}\text{C}$)	Pdh	27,7	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}	31379	kWh	

Item	Symbol	Value	Unit	
Seasonal space heating energy efficiency	ης	126	%	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^{\circ}\mathrm{C}$ and outdoor temperature T_{j}				
<i>T_j</i> = - 7 °C	COPd	3,98		
<i>T_j</i> = + 2 ℃	COPd	3,80		
<i>T_j</i> = + 7 °C	COPd	3,58		
<i>T_j</i> = + 12 ℃	COPd	3,42		
T_j = bivalent temperature	COPd	4,29		
T_j = operation limit	COPd	3,60		
For air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)	COPd	2,98		
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}	15,40	kW	
Type of energy input	electricity			
For air-to-water heat pumps:	-	6500	m³/h	
Rated air flow rate, outdoors 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)*.