Manufacturer:	AWE WÄRMEPUMPEN
Model:	**ELW 52**
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	Item	Symbol	Value	Unit
Rated heat output *	$Prated$	51	kW	**Seasonal space heating energy efficiency**	η_S	82	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = - 7 ºC	Pdh	39,0	kW	T_j = - 7 ºC	$COPd$	2,61	
T_j = + 2 ºC	Pdh	46,4	kW	T_j = + 2 ºC	$COPd$	2,47	
T_j = + 7 ºC	Pdh	50,9	kW	T_j = + 7 ºC	$COPd$	2,30	
T_j = + 12 ºC	Pdh	54,7	kW	T_j = + 12 ºC	$COPd$	2,17	
T_j = bivalent temperature	Pdh	41,5	kW	T_j = bivalent temperature	$COPd$	2,86	
T_j = operation limit	Pdh	35,5	kW	T_j = operation limit	$COPd$	2,30	
For air-to-water heat pumps: T_j = - 15 ºC (if TOL < - 20 ºC)	Pdh	30,0	kW	For air-to-water heat pumps: T_j = - 15 ºC (if TOL < - 20 ºC)	$COPd$	1,86	
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}	15,96	kW
Thermostat-off mode	P_{TO}	0	W	Type of energy input	electricity		
Standby mode	P_{SB}	0	W				
Crankcase heater mode	P_{CK}	0	W				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m³/h
Sound power level, indoors/outdoors	L_{WA}	40	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-		l/h
		34					
Annual energy consumption	Q_{HE}	49823	kWh				

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.