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| <b>Manufacturer:</b> AWE WÄRMEPUMPEN     |
| <b>Model:</b> ELW 7                      |
| <b>Air - to-water heat pump</b>          |
| Low-temperature heat pump: yes           |
| Equipped with a supplementary heater: no |
| Heat pump combination heater: no         |
| Application: medium                      |
| Climate: average                         |

| Item  | Symbol        | Value | Unit |
|---|---------------|-------|------|
| <b>Rated heat output *</b>  | <i>Prated</i> | 7     | kW   |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |               |       |      |
| $T_j = -7$ °C   | <i>Pdh</i>    | 5,2   | kW   |
| $T_j = +2$ °C   | <i>Pdh</i>    | 7,0   | kW   |
| $T_j = +7$ °C   | <i>Pdh</i>    | 8,3   | kW   |
| $T_j = +12$ °C  | <i>Pdh</i>    | 10,0  | kW   |
| $T_j =$ bivalent temperature  | <i>Pdh</i>    | 5,5   | kW   |
| $T_j =$ operation limit   | <i>Pdh</i>    | 4,7   | kW   |
| For air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)                                       | <i>Pdh</i>    | 3,9   | 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   | $P_{TO}$      | 5     | W    |
| Standby mode  | $P_{SB}$      | 20    | W    |
| Crankcase heater mode   | $P_{CK}$      | 0     | W    |
| Other items   |               |       |      |
| Capacity control  |               | fixed |      |
| Sound power level, indoors/outdoors   | $L_{WA}$      | 40    | dB   |
|   |               | 31    |      |
| Annual energy consumption   | $Q_{HE}$      | 4623  | kWh  |

| Item  | Symbol      | Value | Unit              |
|---|-------------|-------|-------------------|
| <b>Seasonal space heating energy efficiency</b>   | $\eta_S$    | 119   | %                 |
| 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   | <i>COPd</i> | 1,93  |                   |
| $T_j = +2$ °C   | <i>COPd</i> | 3,37  |                   |
| $T_j = +7$ °C   | <i>COPd</i> | 3,36  |                   |
| $T_j = +12$ °C  | <i>COPd</i> | 4,11  |                   |
| $T_j =$ bivalent temperature  | <i>COPd</i> | 2,22  |                   |
| $T_j =$ operation limit   | <i>COPd</i> | 1,59  |                   |
| For air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)   | <i>COPd</i> | 1,12  |                   |
| For air-to-water heat pumps: Operation limit temperature  | <i>TOL</i>  | -10   | °C                |
| Heating water operating limit temperature   | <i>WTOL</i> | 55    | °C                |
| Supplementary heater  |             |       |                   |
| Rated heat output *   | $P_{sup}$   | 2,17  | kW                |
| Type of energy input  | electricity |       |                   |
| For air-to-water heat pumps: Rated air flow rate, outdoors  |             |       |                   |
|   | -           | 5500  | m <sup>3</sup> /h |
| For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  |             |       |                   |
|   | -           |       | l/h               |

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| Contact details: AWE WÄRMEPUMPEN,  |
| * For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> . |

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