

Product datasheet: Combination heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)

| | | LWZ 8 CS smart |
|--|-------|----------------|
| | | 239290 |
| Manufacturer | | STIEBEL ELTRON |
| Load profile | | XL |
| Space heating energy efficiency class under average climate conditions, medium-temperature applications | | A++ |
| Energy efficiency class, space heating under average climate conditions, low-temperature applications | | A++ |
| Energy efficiency class, DHW heating under average climate conditions | | А |
| Rated heating output under average climate conditions for medium- temperature applications (P rated) | kW | 7 |
| Rated heating output under average climate conditions for low- temperature applications (P rated) | kW | 10 |
| Annual energy consumption under average climate conditions for medium-temperature applications (QHE) | kWh/a | 4199 |
| Annual energy consumption under average climate conditions for low- temperature applications (QHE) | kWh/a | 4755 |
| Annual power consumption under average climate conditions (AEC) | kWh/a | 1676 |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) | % | 128 |
| Seasonal space heating energy efficiency under average climate conditions for low-temperature applications (η s) | % | 163 |
| Energy efficiency, DHW heating (Ŋwh), under average climate conditions | % | 102 |
| Sound power level, indoor | dB(A) | 50 |
| Rated heating output under colder climate conditions for medium- temperature applications (P rated) | kW | 11 |
| Rated heating output under colder climate conditions for low- temperature applications (P rated) | kW | 14 |
| Rated heating output under warmer climate conditions for medium- temperature applications (P rated) | kW | 8 |
| Rated heating output under warmer climate conditions for low- temperature applications (P rated) | kW | 9 |
| Annual energy consumption under colder climate conditions for medium-temperature applications (QHE) | kWh/a | 9932 |
| Annual energy consumption under colder climate conditions for low- temperature applications (QHE) | kWh/a | 10498 |
| Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE) | kWh/a | 2911 |
| Annual energy consumption under warmer climate conditions for low- temperature applications (QHE) | kWh/a | 2243 |
| Annual power consumption under colder climate conditions (AEC) | kWh/a | 2042 |
| Annual power consumption under warmer climate conditions (AEC) | kWh/a | 1183 |
| Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs) | % | 102 |
| Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications (ηs) | % | 131 |
| Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs) | % | 150 |
| Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications (ηs) | % | 207 |
| Sound power level, outdoor | dB(A) | 50 |





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| Manufacturer | | STIEBEL ELTRON |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ($\eta s)$ | % | 128 |
| Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions | % | 26 |
| Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions | % | 22 |
| Space heating energy efficiency class under average climate conditions, medium- temperature applications | | A++ |
| Space heating energy efficiency class of package under average climate conditions | | A++ |
| Energy efficiency class, DHW heating under average climate conditions | | A |
| Load profile | | XL |

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| Manufacturer | | STIEBEL ELTRON |
| Rated heating output under colder climate conditions for medium-temperature applications (P rated) | kW | 11 |
| Rated heating output under average climate conditions for medium-temperature applications (P rated) | kW | 7 |
| Rated heating output under warmer climate conditions for medium-temperature applications (P rated) | kW | 8 |
| Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh) | kW | 6,4 |
| Tj = -7 °C heating output, partial load range under average climate conditions (Pdh) | kW | 5,9 |
| Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh) | kW | 3,9 |
| Tj = 2 °C heating output, partial load range under average climate conditions (Pdh) | kW | 3,5 |
| Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh) | kW | 8,3 |
| Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh) | kW | 2,8 |
| Tj = 7 $^{\circ}$ C heating output, partial load range under average climate conditions (Pdh) | kW | 2,7 |
| Tj = 7 $^{\circ}$ C heating output, partial load range under warmer climate conditions (Pdh) | kW | 5,4 |
| Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh) | kW | 3,2 |
| Tj = 12 °C heating output, partial load range under average climate conditions (Pdh) | kW | 3,2 |
| Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh) | kW | 3,2 |
| Tj = dual mode temperature under colder climate conditions (Pdh) | kW | 6,4 |
| Tj = dual mode temperature under average climate conditions (Pdh) | kW | 5,9 |
| Tj = dual mode temperature under warmer climate conditions (Pdh) | kW | 8,3 |
| Tj = operating temperature limit under colder climate conditions (Pdh) | kW | 2,6 |
| Tj = operating temperature limit under average climate conditions (Pdh) | kW | 2,7 |
| Tj = operating temperature limit under warmer climate conditions (Pdh) | kW | 8,3 |
| Dual mode temperature under colder climate conditions (Tbiv) | °C | -7 |
| Dual mode temperature under average climate conditions (Tbiv) | °C | -7 |
| Dual mode temperature under warmer climate conditions (Tbiv) | °C | 2 |
| Seasonal space heating energy efficiency under colder climate conditions for medium- temperature applications (Ŋs) | % | 102 |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ($\eta s)$ | % | 128 |
| Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications $(\boldsymbol{\eta}s)$ | % | 150 |
| Tj = -7 °C COP, partial load range under colder climate conditions (COPd) | | 2,50 |
| Tj = -7 °C COP, partial load range under average climate conditions (COPd) | | 2,26 |
| Tj = 2 °C COP, partial load range under colder climate conditions (COPd) | <u> </u> | 3,48 |
| Tj = 2 °C COP, partial load range under average climate conditions (COPd) | | 3,27 |
| Tj = 2 °C COP, partial load range under warmer climate conditions (COPd) | | 2,34 |
| Tj = 7 °C COP, partial load range under colder climate conditions (COPd) | | 4,68 |
| Tj = 7 °C COP, partial load range under average climate conditions (COPd) | | 4,14 |
| Tj = 7 °C COP, partial load range under warmer climate conditions (COPd) | | 3,26 |
| Tj = 12 °C COP, partial load range under colder climate conditions (COPd) | | 5,67 |
| Tj = 12 °C COP, partial load range under average climate conditions (COPd) | | 529,00 |
| Tj = 12 °C COP, partial load range under warmer climate conditions (COPd) | | 5,11 |
| Tj = dual mode temperature under colder climate conditions (COPd) | | 2,50 |
| Tj = dual mode temperature under average climate conditions (COPd) | | 2,26 |
| Tj = dual mode temperature under warmer climate conditions (COPd) | | 2,34 |
| Tj = operating temperature limit under colder climate conditions (COPd) | | 2,09 |
| I = operating temperature limit under average climate conditions (COPd) | ,, | 1,88 |
| I = operating temperature limit under warmer climate conditions (COPd) | | 2,34 |
| Operating temperature limit of heating water under average climate conditions (WTOL) | <u> </u> | 60 |
| Power consumption, off-mode (Poff) | | 27 |
| Power consumption, thermostat off-mode (PTO) | W | 63 |
| Power consumption, standby state (PSB) | W | 27 |
| Prover consumption, operating state, with crankcase heating (PCK) | W | 35 |
| Rated neating output of auxiliary heater under average climate conditions (PSUP) | kW | 4,0 |
| souna power level, outdoor | dB(A) | 50 |
| sound power level, indoor | dB(A) | 50 |
| Annual energy consumption under colder climate conditions for medium-temperature applications (QHE) | kWh/a | 9932 |
| Annual energy consumption under average climate conditions for medium-temperature applications (QHE) | kWh/a | 4199 |

Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE) $% \left(\left(\mathsf{QHE}\right) \right) \right)$

kWh/a

| Load profile | | XL |
|--|-------|------|
| Annual power consumption under colder climate conditions (AEC) | kWh/a | 2042 |
| Annual power consumption under average climate conditions (AEC) | kWh/a | 1676 |
| Annual power consumption under warmer climate conditions (AEC) | kWh/a | 1183 |
| Energy efficiency, DHW heating (Ŋwh), under average climate conditions | % | 102 |