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STIEBEL ELTRON

HPA-O 8 CS Plus
 compact Set 1.1



A++



Two icons of a house with sound waves. The top icon shows sound waves coming from the house, and the bottom icon shows sound waves entering the house. Below the bottom icon is the text "57 dB".



A legend with three colored squares and their corresponding power outputs: a dark blue square for "9 kW", a medium blue square for "9 kW", and a light blue square for "8 kW".

2019

811/2013

Product datasheet: Combi heater to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

| | | HPA-O 8 CS Plus compact Set 1.1 |
|---|-------|--|
| | | 204270 |
| Manufacturer | | STIEBEL ELTRON |
| Load profile | | L |
| Energy efficiency class for central heating in moderate climates for medium temperature applications | | A++ |
| Energy efficiency class for central heating in moderate climates for low temperature applications | | A+++ |
| Rated heating output in moderate climates for average temperature applications (Prated) | kW | 8 |
| Rated heating output in moderate climates for low temperature applications (Prated) | kW | 9 |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a | 4865 |
| Annual energy consumption in moderate climates for low temperature applications (QHE) | kWh/a | 4218 |
| Annual power consumption in moderate climates (AEC) | kWh/a | 1007 |
| Seasonal room heating efficiency in moderate climates for average temperature applications (η_s) | % | 125 |
| Seasonal room heating efficiency in moderate climates for low temperature applications (η_s) | % | 177 |
| Energy efficiency for DHW heating (η_{wh}) under moderate climatic conditions | % | 101,7 |
| Sound power level external | dB(A) | 57 |
| Rated heating output in colder climates for average temperature applications (Prated) | kW | 11 |
| Rated heating output in colder climates for low temperature applications (Prated) | kW | 9 |
| Rated heating output in warmer climates for average temperature applications (Prated) | kW | 6 |
| Rated heating output in warmer climates for low temperature applications (Prated) | kW | 8 |
| Annual energy consumption in colder climates for average temperature applications (QHE) | kWh/a | 10193 |
| Annual energy consumption in colder climates for low temperature applications (QHE) | kWh/a | 5722 |
| Annual energy consumption in warmer climates for average temperature applications (QHE) | kWh/a | 2048 |
| Annual energy consumption in warmer climates for low temperature applications (QHE) | kWh/a | 1867 |
| Seasonal room heating efficiency in colder climates for average temperature applications (η_s) | % | 103 |
| Seasonal room heating efficiency in colder climates for low temperature applications (η_s) | % | 147 |
| Seasonal room heating efficiency in warmer climates for average temperature applications (η_s) | % | 153 |
| Seasonal room heating efficiency in warmer climates for low temperature applications (η_s) | % | 215 |
| Operation exclusively enabled during low load times | | - |



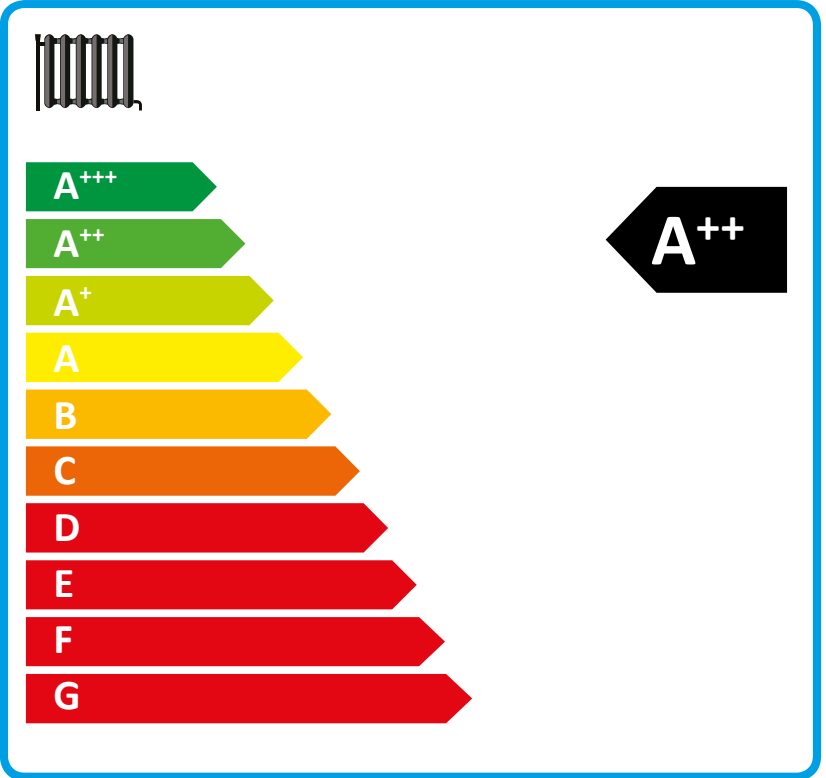
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STIEBEL ELTRON

HPA-O 8 CS Plus compact Set 1.1

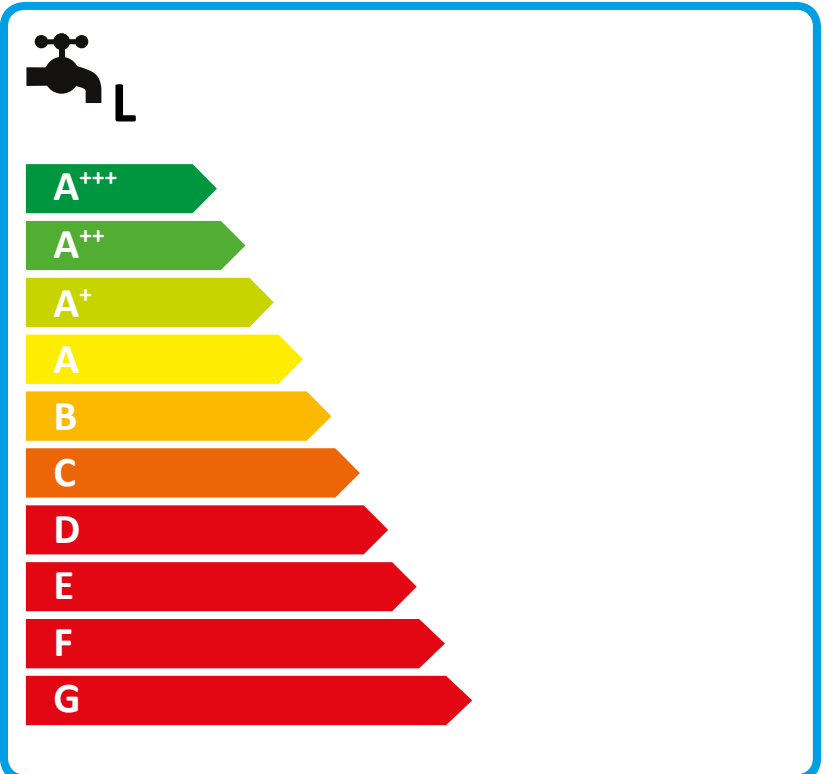


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Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

| | | HPA-O 8 CS Plus compact Set 1.1 |
|---|---|--|
| | | 204270 |
| Manufacturer | | STIEBEL ELTRON |
| Seasonal room heating efficiency in moderate climates for average temperature applications (η_s) | % | 125 |
| Temperature controller class | | VI |
| Contribution of temperature controller to room heating energy efficiency | % | 4 |
| Room heating energy efficiency of composite system under moderate climatic conditions | % | 129 |
| Room heating energy efficiency of composite system under colder climatic conditions | % | 107 |
| Room heating energy efficiency of composite system under warmer climatic conditions | % | 163 |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 22 |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 34 |
| Energy efficiency class for central heating in moderate climates for medium temperature applications | | A++ |
| Room heating energy efficiency class of composite system under moderate climatic conditions | | A++ |
| Load profile | | L |

Required details about room heater and combi heater with heat pump to regulation (EU) no. 813/2013 & 811/2013

| | | HPA-O 8 CS Plus compact Set 1.1 |
|---|----|---------------------------------|
| | | 204270 |
| Manufacturer | | STIEBEL ELTRON |
| Heat source | | Outside air |
| Combi boiler with heat pump | | x |
| Rated heating output in colder climates for average temperature applications (Prated) | kW | 11 |
| Rated heating output in moderate climates for average temperature applications (Prated) | kW | 8 |
| Rated heating output in warmer climates for average temperature applications (Prated) | kW | 6 |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh) | kW | 6.6 |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh) | kW | 5.1 |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh) | kW | 4.0 |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh) | kW | 4.1 |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh) | kW | 6.0 |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh) | kW | 2.7 |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh) | kW | 2.6 |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh) | kW | 3.9 |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh) | kW | 3.4 |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh) | kW | 3.3 |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh) | kW | 3.3 |
| Tj = dual mode temperature in colder climates (Pdh) | kW | 6.6 |
| Tj = dual mode temperature under moderate climatic conditions (Pdh) | kW | 6.1 |
| Tj = dual mode temperature in warmer climates (Pdh) | kW | 6.0 |
| Tj = operating temperature limit in colder climates (Pdh) | kW | 1.8 |
| Tj = operating temperature limit under moderate climatic conditions (Pdh) | kW | 5.1 |
| Tj = operating temperature limit in warmer climates (Pdh) | kW | 6.0 |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh) | kW | 0.0 |
| Dual mode temperature in colder climates (Tbiv) | °C | -7 |
| Dual mode temperature in moderate climates (Tbiv) | °C | -5 |
| Dual mode temperature in warmer climates (Tbiv) | °C | 2 |
| Seasonal room heating efficiency in colder climates for average temperature applications (ηs) | % | 103 |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | % | 125 |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs) | % | 153 |
| Tj = -7 °C COP, partial load range in colder climates (COPd) | | 2.40 |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd) | | 2.00 |
| Tj = 2 °C COP, partial load range in colder climates (COPd) | | 3.60 |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd) | | 3.30 |
| Tj = 2 °C COP, partial load range in warmer climates (COPd) | | 2.20 |
| Tj = 7 °C COP, partial load range in colder climates (COPd) | | 5.00 |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd) | | 4.60 |
| Tj = 7 °C COP, partial load range in warmer climates (COPd) | | 3.20 |
| Tj = 12 °C COP, partial load range in colder climates (COPd) | | 6.20 |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd) | | 6.0 |
| Tj = 12 °C COP, partial load range in warmer climates (COPd) | | 5.70 |
| Tj = dual mode temperature in colder climates (COPd) | | 2.40 |
| Tj = dual mode temperature under moderate climatic conditions (COPd) | | 2.30 |
| Tj = dual mode temperature in warmer climates (COPd) | | 2.20 |
| Tj = operating temperature limit in colder climates (COPd) | | 1.40 |

| | | |
|---|-------------------|----------|
| Tj = operating temperature limit under moderate climatic conditions (COPd) | | 2.00 |
| Tj = operating temperature limit in warmer climates (COPd) | | 2.20 |
| For air/water heat pumps: Tj= -15 °C (if TOL < -20 °C) (COPd) | | 0.00 |
| Operating temperature limit in colder climates (TOL) | °C | -15 |
| Operating temperature limit in moderate climates (TOL) | °C | -5 |
| Operating temperature limit in warmer climates (TOL) | °C | 2 |
| Heating water operating temperature limit in colder climates (WTOL) | °C | 60 |
| Heating water operating temperature limit (WTOL) | °C | 60 |
| Heating water operating temperature limit in warmer climates (WTOL) | °C | 60 |
| Power consumption, OFF state (Poff) | W | 17 |
| Power consumption, thermostat OFF state (PTO) | W | 30 |
| Standby power consumption (PSB) | W | 17 |
| Power consumption, operating state, with crankcase heating (PCK) | W | 5 |
| Booster heater heating output in colder climates (Psup) | kW | 11.0 |
| Booster heater heating output in moderate climate (Psup) | kW | 8.0 |
| Booster heater heating output in warmer climates (Psup) | kW | 0.0 |
| Type of energy supply, booster heater | | electric |
| Power control | | variable |
| Sound power level external | dB(A) | 57 |
| Annual energy consumption in colder climates for average temperature applications (QHE) | kWh/a | 10193 |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a | 4865 |
| Annual energy consumption in warmer climates for average temperature applications (QHE) | kWh/a | 2048 |
| Flow rate, heat source side | m ³ /h | 2200 |
| Load profile | | L |
| Daily power consumption (Qelec) | kWh | 4.791 |
| Annual power consumption in moderate climates (AEC) | kWh/a | 1007 |
| Energy efficiency for DHW heating (Γ_{wh}) under moderate climatic conditions | % | 101,7 |