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**STIEBEL ELTRON**

HPA-O 8 CS Plus  
 compact Set



**A++**



**A**

57 dB



- 9 kW
- 9 kW
- 8 kW

2019

811/2013

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

|   |       | <b>HPA-O 8 CS Plus compact Set</b>  |
|---|-------|---|
|   |       | 239058  |
| 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+++  |
| Energy efficiency category for DHW heating under moderate climatic conditions                           |       | 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 | 905   |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %     | 125   |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %     | 177   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under moderate climatic conditions                    | %     | 113   |
| Sound power level external  | dB(A) | 57  |
| Special measures  |       | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |
| 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  |
| Annual power consumption in colder climates (AEC)   | kWh/a | 949   |
| Annual power consumption in warmer climates (AEC)   | kWh/a | 717   |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %     | 103   |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %     | 147   |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %     | 153   |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 215   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under colder climatic conditions                      | %     | 102   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under warmer climatic conditions                      | %     | 139   |
| Operation exclusively enabled during low load times   |       | -   |



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**STIEBEL ELTRON**

HPA-O 8 CS Plus compact Set

Energy label for heating system components. It shows a boiler icon with an A++ label, a radiator icon with an A++ label, and a tap icon with an A label.

Energy label for radiator. It shows a radiator icon and a scale from A+++ to G. The A+++ label is highlighted in a black arrow pointing to the right.

Energy label for additional features. It shows four features with their respective energy labels: solar panels (+), hot water tank (+), control panel (X), and boiler (+).

Energy label for tap. It shows a tap icon and a scale from A+++ to G. The A label is highlighted in a black arrow pointing to the right.

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

|   |   | <b>HPA-O 8 CS Plus compact Set</b> |
|---|---|------------------------------------|
|   |   | 239058                             |
| Manufacturer  |   | STIEBEL ELTRON                     |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 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++                                |
| Energy efficiency category for DHW heating 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**

|   |    | <b>HPA-O 8 CS Plus compact Set</b> |
|---|----|------------------------------------|
|   |    | 239058                             |
| Manufacturer  |    | STIEBEL ELTRON                     |
| Heat source   |    | Outside air                        |
| Low temperature heat pump   |    | -                                  |
| With booster heater   |    | x                                  |
| 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                                  |
| 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                                  |
| 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                                  |
| 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                                  |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 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)                                    |    | 2.4                                |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 2.0                                |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.6                                |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.3                                |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.2                                |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 5                                  |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.6                                |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.2                                |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 6.2                                |
| 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)                                    |    | 5.7                                |
| Tj = dual mode temperature in colder climates (COPd)  |    | 2.4                                |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |    | 2.3                                |

|   |   |          |
|---|---|----------|
| Tj = dual mode temperature in warmer climates (COPd)                                      |   | 2.2      |
| Tj = operating temperature limit in colder climates (COPd)                                |   | 1.4      |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.0      |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.2      |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)                            |   | 0        |
| Operating temperature limit in colder climates (TOL)                                      | °C  | -15      |
| Operating temperature limit in moderate climates (TOL)                                    | °C  | -7       |
| 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       |
| Booster heater heating output (PSUB)  | kW  | 8.00     |
| Booster heater heating output in warmer climates (Psup)                                   | kW  | 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 <sup>3</sup> /h   | 2200     |
| Load profile  |   | L        |
| Daily power consumption (Qelec)   | kWh   | 4.45     |
| Annual power consumption in colder climates (AEC)   | kWh/a   | 949      |
| Annual power consumption in moderate climates (AEC)                                       | kWh/a   | 905      |
| Annual power consumption in warmer climates (AEC)   | kWh/a   | 717      |
| Energy efficiency for DHW heating ( $\Gamma_{wh}$ ) under moderate climatic conditions    | %   | 113      |
| Special measures  | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |