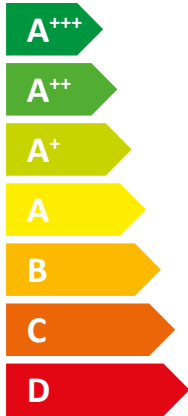




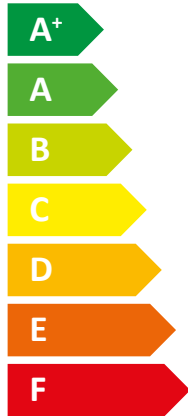
# ENERGY

**STIEBEL ELTRON**

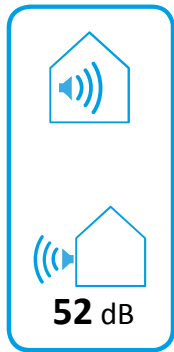
HPA-O 3 CS Plus  
compact D Set S



**A+**



**A**



■ 3 kW  
■ 4 kW  
■ 3 kW

2019

811/2013

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

|   |       | <b>HPA-O 3 CS Plus compact D Set S</b>  |
|---|-------|---|
|   |       | 238996  |
| 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    | 4   |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW    | 4   |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a | 2089  |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a | 1769  |
| Annual power consumption in moderate climates (AEC)   | kWh/a | 905   |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %     | 113   |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %     | 166   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under moderate climatic conditions                    | %     | 113   |
| Sound power level external  | dB(A) | 52  |
| 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    | 4   |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW    | 3   |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW    | 3   |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW    | 3   |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a | 4016  |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a | 2186  |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a | 1187  |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a | 783   |
| 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 ( $\eta_s$ )   | %     | 105   |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %     | 150   |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %     | 139   |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 204   |
| 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   |       | -   |



# ENERGY

**STIEBEL ELTRON**

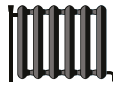
HPA-O 3 CS Plus compact D Set S



A<sup>+</sup>



A



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

E

F

G

A<sup>+</sup>

+



+



+



+



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

E

F

G

A

**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 3 CS Plus compact D Set S</b> |
|---|---|--|
|   |   | 238996                                 |
| Manufacturer  |   | STIEBEL ELTRON                         |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 113                                    |
| 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   | % | 117                                    |
| Room heating energy efficiency of composite system under colder climatic conditions   | % | 109                                    |
| Room heating energy efficiency of composite system under warmer climatic conditions   | % | 143                                    |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 8                                      |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 26                                     |
| 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 3 CS Plus compact D Set S</b> |
|---|----|--|
|   |    | 238996                                 |
| 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 | 4                                      |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 4                                      |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 3                                      |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 2.65                                   |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 3.1                                    |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 1.6                                    |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 1.6                                    |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 3.1                                    |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 1.2                                    |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 1.3                                    |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 2.0                                    |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 1.5                                    |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 1.5                                    |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 1.5                                    |
| Tj = dual mode temperature in colder climates (Pdh)   | kW | 3.0                                    |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 2.4                                    |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 3.1                                    |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 2.6                                    |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 3.1                                    |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 3.1                                    |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 0.0                                    |
| Dual mode temperature in colder climates (Tbiv)   | °C | -10                                    |
| 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)   | %  | 105                                    |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 113                                    |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 139                                    |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 2.30                                   |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 2.07                                   |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.45                                   |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 2.93                                   |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.19                                   |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 4.66                                   |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.13                                   |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.27                                   |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 6.65                                   |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 5.97                                   |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 5.15                                   |
| Tj = dual mode temperature in colder climates (COPd)  |    | 2.09                                   |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |    | 2.17                                   |

|   |   |          |
|---|---|----------|
| Tj = dual mode temperature in warmer climates (COPd)                                      |   | 2.19     |
| Tj = operating temperature limit in colder climates (COPd)                                |   | 2.30     |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.07     |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.19     |
| 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 (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 moderate climate (Psup)                                  | kW  | 2.9      |
| Type of energy supply, booster heater   |   | electric |
| Power control   |   | variable |
| Sound power level external  | dB(A)   | 52       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a   | 4016     |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a   | 2089     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a   | 1187     |
| Flow rate, heat source side   | m <sup>3</sup> /h   | 1300     |
| 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 ( $\eta_{wh}$ ) 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 |          |