



# ENERGY

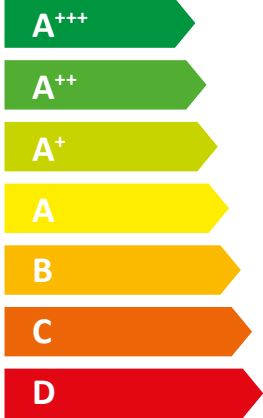
**STIEBEL ELTRON**

HPA-O 4 CS Plus int



55 °C

35 °C



A<sup>+</sup>

A<sup>++</sup>



52 dB

■ 5  
■ 4  
■ 4  
kW

■ 4  
■ 5  
■ 3  
kW



2019

811/2013

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

|   |   | <b>HPA-O 4 CS Plus int</b> |
|---|---|----------------------------|
|   |   | 239170                     |
| Manufacturer  |   | STIEBEL ELTRON             |
| 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  | 4                          |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW  | 5                          |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %   | 116                        |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %   | 163                        |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a   | 2618                       |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a   | 2265                       |
| 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  | 5                          |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW  | 4                          |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW  | 4                          |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW  | 3                          |
| 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 ( $\eta_s$ )       | %   | 206                        |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a   | 4884                       |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a   | 2757                       |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a   | 1467                       |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a   | 889                        |



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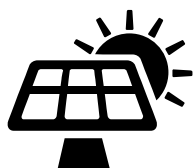
**STIEBEL ELTRON**

HPA-O 4 CS Plus int



**A<sup>+</sup>**

+



+



+



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**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

**D**

**E**

**F**

**G**

**A<sup>+</sup>**

**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 4 CS Plus int</b> |
|---|---|----------------------------|
|   |   | 239170                     |
| Manufacturer  |   | STIEBEL ELTRON             |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 116                        |
| 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   | % | 120                        |
| 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+                         |

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

|   |    | <b>HPA-O 4 CS Plus int</b> |
|---|----|----------------------------|
|   |    | 239170                     |
| Manufacturer  |    | STIEBEL ELTRON             |
| Heat source   |    | Outside air                |
| With booster heater   |    | -                          |
| Combi boiler with heat pump   |    | -                          |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW | 5                          |
| 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 | 4                          |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 3.24                       |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 3.4                        |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 1.9                        |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 2.0                        |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 3.9                        |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 2.4                        |
| 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 | 1.2                        |
| 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 | 3.8                        |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 3.0                        |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 4.0                        |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 3.2                        |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 3.4                        |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 3.9                        |
| 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) | %  | 116                        |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 139                        |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 2.28                       |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 2.05                       |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.40                       |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 2.94                       |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.13                       |
| 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)                                     |    | 3.25                       |
| 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)                            |    | 2.15                       |
| Tj = dual mode temperature in warmer climates (COPd)  |    | 2.13                       |

|   |   |          |
|---|---|----------|
| Tj = operating temperature limit in colder climates (COPd)                                |   | 2.28     |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.05     |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.13     |
| 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  | 3.6      |
| 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   | 4884     |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a   | 2618     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a   | 1467     |
| Flow rate, heat source side   | m <sup>3</sup> /h   | 1300     |
| Special measures  | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |