



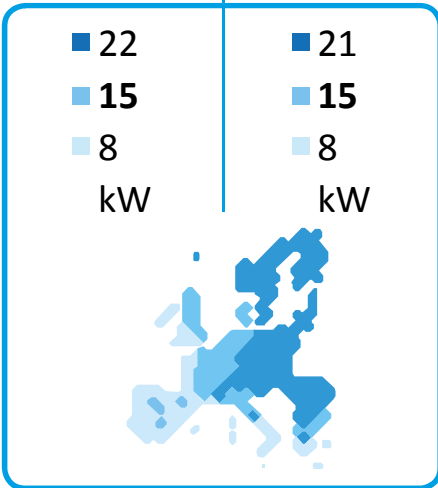
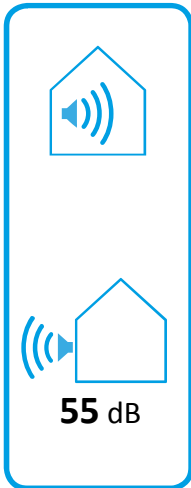
# ENERGY

## STIEBEL ELTRON HPA-O 13 Premium



55 °C

35 °C



2019

811/2013

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

|   |       | <b>HPA-O 13 Premium</b>   |
|---|-------|---|
|   |       | 238982  |
| 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    | 15  |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW    | 15  |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %     | 141   |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %     | 182   |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a | 8620  |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a | 6689  |
| Sound power level external  | dB(A) | 55  |
| 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    | 22  |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW    | 21  |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW    | 8   |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW    | 8   |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %     | 124   |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %     | 159   |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %     | 163   |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 219   |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a | 16285   |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a | 12796   |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a | 2581  |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a | 1930  |



# ENERGY

**STIEBEL ELTRON**

HPA-O 13 Premium



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

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

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

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

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

**A**

**B**

**C**

**D**

**E**

**F**

**G**

+



+



+



+



**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 13 Premium</b> |
|---|---|-------------------------|
|   |   | 238982                  |
| Manufacturer  |   | STIEBEL ELTRON          |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 141                     |
| 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   | % | 145                     |
| Room heating energy efficiency of composite system under colder climatic conditions   | % | 134                     |
| Room heating energy efficiency of composite system under warmer climatic conditions   | % | 167                     |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 9                       |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 24                      |
| 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

|   |    | HPA-O 13 Premium |
|---|----|------------------|
|   |    | 238982           |
| Manufacturer  |    | STIEBEL ELTRON   |
| Heat source   |    | Outside air      |
| With booster heater   |    | x                |
| Combi boiler with heat pump   |    | -                |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW | 22               |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 15               |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 8                |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 13.3             |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 13.8             |
| Tj = -7 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 13.9             |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 8.3              |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 8.4              |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 8.4              |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 7.9              |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 7.8              |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 7.5              |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 6.7              |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 9.0              |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 6.4              |
| Tj = dual mode temperature in colder climates (Pdh)   | kW | 15.2             |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 12.5             |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 8.4              |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 12.8             |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 13.4             |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 8.4              |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 13.4             |
| 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)   | %  | 124              |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 141              |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 163              |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 2.67             |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 2.48             |
| Tj = -7 °C COP, partial load range in warmer climates (COPd)                                    |    | 2.42             |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.92             |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.51             |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.74             |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 5.12             |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.61             |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.64             |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 7.08             |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 6.66             |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 6.25             |
| Tj = dual mode temperature in colder climates (COPd)  |    | 2.90             |

|   |   |          |
|---|---|----------|
| Tj = dual mode temperature under moderate climatic conditions (COPd)                      |   | 2.59     |
| Tj = dual mode temperature in warmer climates (COPd)                                      |   | 2.74     |
| Tj = operating temperature limit in colder climates (COPd)                                |   | 2.28     |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.28     |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.74     |
| For air/water heat pumps: Tj= -15 °C (if TOL < -20 °C) (COPd)                             |   | 2.28     |
| Operating temperature limit in colder climates (TOL)                                      | °C  | -20      |
| Operating temperature limit in moderate climates (TOL)                                    | °C  | -10      |
| Operating temperature limit in warmer climates (TOL)                                      | °C  | 2        |
| Heating water operating temperature limit in colder climates (WTOL)                       | °C  | 65       |
| Heating water operating temperature limit (WTOL)  | °C  | 65       |
| Heating water operating temperature limit in warmer climates (WTOL)                       | °C  | 65       |
| Power consumption, OFF state (Poff)   | W   | 10       |
| Power consumption, thermostat OFF state (PTO)   | W   | 10       |
| Standby power consumption (PSB)   | W   | 10       |
| Power consumption, operating state, with crankcase heating (PCK)                          | W   | 38       |
| Booster heater heating output in colder climates (Psup)                                   | kW  | 10.9     |
| Booster heater heating output in moderate climate (Psup)                                  | kW  | 1.6      |
| 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)   | 55       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a   | 16285    |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a   | 8620     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a   | 2581     |
| Flow rate, heat source side   | m <sup>3</sup> /h   | 4000     |
| Special measures  | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |