



# ENERG

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**STIEBEL ELTRON**

HPA-O 8 CS Plus

A+

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**Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013**

|   |   | <b>HPA-O 8 CS Plus</b> |
|---|---|------------------------|
|   |   | 238987                 |
| Manufacturer  |   | STIEBEL ELTRON         |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 123                    |
| 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   | % | 127                    |
| Room heating energy efficiency of composite system under colder climatic conditions   | % | 115                    |
| Room heating energy efficiency of composite system under warmer climatic conditions   | % | 162                    |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 12                     |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 35                     |
| 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 8 CS Plus</b> |
|---|-------|------------------------|
|   |       | 238987                 |
| Manufacturer  |       | STIEBEL ELTRON         |
| Heat source   |       | Outside air            |
| Low temperature heat pump   |       | -                      |
| With booster heater   |       | -                      |
| Combi boiler with heat pump   |       | -                      |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW    | 9                      |
| 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    | 7                      |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW    | 5,1                    |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW    | 4,1                    |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW    | 2,6                    |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW    | 3,3                    |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW    | 6,1                    |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW    | 5,1                    |
| For air/water heat pumps:Tj = -15 °C (if TOL< -20 °C) (Pdh)                                     | kW    | 0                      |
| Dual mode temperature in moderate climates (Tbiv)   | °C    | -5                     |
| Seasonal room heating efficiency in colder climates for average temperature applications (ηs)   | %     | 111                    |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %     | 123                    |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %     | 158                    |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |       | 1,97                   |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |       | 3,18                   |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |       | 4,56                   |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |       | 5,98                   |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |       | 2,28                   |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                      |       | 1,97                   |
| For air/water heat pumps:Tj= -15°C (if TOL< -20 °C) (COPd)                                      |       | 0                      |
| 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 (PSUB)  | kW    | 7,55                   |
| 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 | 7599                   |
| Annual energy consumption in moderate climates for average temperature applications (QHE)       | kWh/a | 4947                   |
| Annual energy consumption in warmer climates for average temperature applications (QHE)         | kWh/a | 2226                   |
| Flow rate, heat source side   | m³/h  | 2200                   |