



# ENERG

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**STIEBEL ELTRON**

HPA-O 8 CS Plus compact Set 1.1

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**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 1.1</b> |
|---|---|--|
|   |   | 204270                                 |
| 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++                                    |

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

|   |    | HPA-O 8 CS Plus compact Set 1.1 |
|---|----|---------------------------------|
|   |    | 204270                          |
| Manufacturer  |    | STIEBEL ELTRON                  |
| Heat source   |    | Outside air                     |
| 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 | 5.10                            |
| 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 | 4.10                            |
| 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 | 2.60                            |
| 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 | 3.30                            |
| 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 | 6.10                            |
| 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 | 5.10                            |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 6                               |
| For air/water heat pumps:Tj = -15 °C (if TOL< -20 °C) (Pdh)                                     | kW | 0.00                            |
| 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)                    |    | 2.00                            |
| 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)                     |    | 3.30                            |
| 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)                     |    | 4.60                            |
| 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)                            |    | 2.30                            |
| 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)                |                   | 2.00     |
| Tj = operating temperature limit in warmer climates (COPd)                                |                   | 2.2      |
| 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                | -7.000   |
| 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                 | 17.000   |
| Power consumption, thermostat OFF state (PTO)   | W                 | 30       |
| Standby power consumption (PSB)   | W                 | 17.000   |
| Power consumption, operating state, with crankcase heating (PCK)                          | W                 | 5.000    |
| Booster heater heating output in colder climates (Psup)                                   | kW                | 11       |
| Booster heater heating output (PSUB)  | kW                | 8.000    |
| 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     |