



# ENERGY

**STIEBEL ELTRON**

HPA-O 6 CS Plus  
compact D Set S 1.1



**A++**



Two icons showing sound power level: a speaker icon inside a house and a speaker icon outside a house. Below the icons is the text "57 dB".



A legend for power output with three colored squares: a dark blue square labeled "6 kW", a medium blue square labeled "7 kW", and a light blue square labeled "6 kW".

2019

811/2013

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

|   |       | <b>HPA-O 6 CS Plus compact D Set S 1.1</b> |
|---|-------|--|
|   |       | 204279                                     |
| 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+++                                       |
| Rated heating output in moderate climates for average temperature applications (Prated)                 | kW    | 8  |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW    | 7  |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a | 4865                                       |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a | 3120                                       |
| Annual power consumption in moderate climates (AEC)   | kWh/a | 1007                                       |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %     | 125  |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %     | 177  |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under moderate climatic conditions                    | %     | 101,7                                      |
| Sound power level external  | dB(A) | 57   |
| Rated heating output in colder climates for average temperature applications (Prated)                   | kW    | 11   |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW    | 6  |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW    | 6  |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW    | 6  |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a | 10193                                      |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a | 3713                                       |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a | 2048                                       |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a | 1556                                       |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %     | 103  |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %     | 151  |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %     | 153  |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 213  |
| Operation exclusively enabled during low load times   |       | -  |



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HPA-O 6 CS Plus compact D Set S 1.1

Energy efficiency icons: a boiler, a radiator, a tap, and an A++ energy class label.

Energy efficiency scale from A+++ to G. The A++ label is highlighted in a black arrow pointing left.

Feature icons: solar panel, hot water tank, touch control, and boiler, each with a plus sign and a checkbox.

Energy efficiency scale from A+++ to G. A tap icon is positioned above the scale.

**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 6 CS Plus compact D Set S 1.1</b> |
|---|---|--|
|   |   | 204279                                     |
| 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   | % | 156  |
| 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 | % | 27   |
| 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++  |
| Load profile  |   | L  |

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

|   |    | HPA-O 6 CS Plus compact D Set S 1.1 |
|---|----|-------------------------------------|
|   |    | 204279                              |
| Manufacturer  |    | STIEBEL ELTRON                      |
| Heat source   |    | Outside air                         |
| Combi boiler with heat pump   |    | x                                   |
| 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 | 5.1                                 |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 4.0                                 |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 4.1                                 |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 6.0                                 |
| 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 | 2.6                                 |
| 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 | 3.3                                 |
| 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 | 6.1                                 |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 6.0                                 |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 1.8                                 |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 5.1                                 |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 6.0                                 |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 0.0                                 |
| 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)                                    |    | 2.40                                |
| 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)                                     |    | 3.60                                |
| 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)                                     |    | 2.20                                |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 5.00                                |
| 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)                                     |    | 3.20                                |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 6.20                                |
| 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)                                    |    | 5.70                                |
| Tj = dual mode temperature in colder climates (COPd)  |    | 2.40                                |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |    | 2.30                                |
| Tj = dual mode temperature in warmer climates (COPd)  |    | 2.20                                |
| Tj = operating temperature limit in colder climates (COPd)                                      |    | 1.40                                |

|   |                   |          |
|---|-------------------|----------|
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |                   | 2.00     |
| Tj = operating temperature limit in warmer climates (COPd)                                |                   | 2.20     |
| 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 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       |
| 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 colder climates (Psup)                                   | kW                | 11.0     |
| Booster heater heating output in moderate climate (Psup)                                  | kW                | 7.6      |
| 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)             | 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     |
| Load profile  |                   | L        |
| Daily power consumption (Qelec)   | kWh               | 4.791    |
| Annual power consumption in moderate climates (AEC)                                       | kWh/a             | 1007     |
| Energy efficiency for DHW heating ( $\Gamma_{wh}$ ) under moderate climatic conditions    | %                 | 101,7    |