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**STIEBEL ELTRON**

HPA-O 6 CS Plus  
 compact Set



**A++**



**A**

57 dB



- 6 kW
- 7 kW
- 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 Set</b>                                                                                                      |
|---------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |       | 239057                                                                                                                                  |
| 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+++                                                                                                                                    |
| Energy efficiency category for DHW heating under moderate climatic conditions                           |       | 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 | 905                                                                                                                                     |
| 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                    | %     | 113                                                                                                                                     |
| Sound power level external                                                                              | dB(A) | 57                                                                                                                                      |
| 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    | 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 | 2050                                                                                                                                    |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a | 1556                                                                                                                                    |
| Annual power consumption in colder climates (AEC)                                                       | kWh/a | 949                                                                                                                                     |
| Annual power consumption in warmer climates (AEC)                                                       | kWh/a | 717                                                                                                                                     |
| 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 ( $\eta_s$ )   | %     | 152                                                                                                                                     |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 213                                                                                                                                     |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under colder climatic conditions                      | %     | 102                                                                                                                                     |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under warmer climatic conditions                      | %     | 139                                                                                                                                     |



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**STIEBEL ELTRON**

HPA-O 6 CS Plus compact Set

Energy label components: boiler icon, radiator icon, tap icon, and energy class labels A++ and A.

Energy label scale for radiator icon. The scale ranges from A+++ (green) to G (red). A black arrow points to the A++ label.

Energy label components: solar panel icon, hot water tank icon, control panel icon, and boiler icon. Checkboxes are present for the solar panel, hot water tank, and boiler, and an 'X' is marked in the checkbox for the control panel.

Energy label scale for tap icon. The scale ranges from A+++ (green) to G (red). A black arrow points to the A label.

**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 Set</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------|
|                                                                                                                                           |   | 239057                             |
| 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++                                |
| Energy efficiency category for DHW heating 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**

|                                                                                                 |    | <b>HPA-O 6 CS Plus compact Set</b> |
|-------------------------------------------------------------------------------------------------|----|------------------------------------|
|                                                                                                 |    | 239057                             |
| Manufacturer                                                                                    |    | STIEBEL ELTRON                     |
| Heat source                                                                                     |    | Outside air                        |
| Low temperature heat pump                                                                       |    | -                                  |
| With booster heater                                                                             |    | x                                  |
| 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 | 6.7                                |
| 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 | 6.7                                |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 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)   | %  | 152                                |
| 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)                    |    | 2.0                                |
| 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)                     |    | 3.3                                |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.2                                |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 5.0                                |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.6                                |
| 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)                            |    | 2.3                                |

|                                                                                           |                                                                                                                                         |          |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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)                |                                                                                                                                         | 2.0      |
| Tj = operating temperature limit in warmer climates (COPd)                                |                                                                                                                                         | 2.2      |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)                            |                                                                                                                                         | 0        |
| Operating temperature limit in colder climates (TOL)                                      | °C                                                                                                                                      | -15      |
| Operating temperature limit in moderate climates (TOL)                                    | °C                                                                                                                                      | -7       |
| 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       |
| Booster heater heating output (PSUB)                                                      | kW                                                                                                                                      | 7.6      |
| 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                                                                                                                                   | 2050     |
| Flow rate, heat source side                                                               | m <sup>3</sup> /h                                                                                                                       | 2200     |
| Load profile                                                                              |                                                                                                                                         | L        |
| Annual power consumption in colder climates (AEC)                                         | kWh/a                                                                                                                                   | 949      |
| Annual power consumption in moderate climates (AEC)                                       | kWh/a                                                                                                                                   | 905      |
| Annual power consumption in warmer climates (AEC)                                         | kWh/a                                                                                                                                   | 717      |
| Energy efficiency for DHW heating ( $\Gamma_{wh}$ ) under moderate climatic conditions    | %                                                                                                                                       | 113      |
| Special measures                                                                          | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |