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**STIEBEL ELTRON** WPC 10 S



**A++**



**A**

**49 dB**



- 13 kW
- 10 kW
- 10 kW

2019

811/2013

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

|   |   | <b>WPC 10 S</b> |
|---|---|-----------------|
|   |   | 232939          |
| Manufacturer  |   | STIEBEL ELTRON  |
| Load profile  |   | XL              |
| 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  | 9               |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW  | 10              |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a   | 5358            |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a   | 4091            |
| Annual power consumption in moderate climates (AEC)   | kWh/a   | 1529            |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %   | 136             |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %   | 200             |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under moderate climatic conditions                    | %   | 110             |
| Sound power level internal  | dB(A)   | 49              |
| 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  | 12              |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW  | 13              |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW  | 9               |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW  | 10              |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a   | 7799            |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a   | 5895            |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a   | 3488            |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a   | 2660            |
| Annual power consumption in colder climates (AEC)   | kWh/a   | 1529            |
| Annual power consumption in warmer climates (AEC)   | kWh/a   | 1529            |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %   | 141             |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %   | 206             |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %   | 135             |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %   | 199             |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under colder climatic conditions                      | %   | 110             |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under warmer climatic conditions                      | %   | 110             |
| Operation exclusively enabled during low load times   |   | -               |



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**STIEBEL ELTRON**

WPC 10 S

A++

A

A+++

A++

A+

A

B

C

D

E

F

G

A++

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+

X

XL

A+++

A++

A+

A

B

C

D

E

F

G

A

**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>WPC 10 S</b> |
|---|---|-----------------|
|   |   | 232939          |
| Manufacturer  |   | STIEBEL ELTRON  |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 136             |
| Temperature controller class  |   | VII             |
| Contribution of temperature controller to room heating energy efficiency  | % | 3.50            |
| Room heating energy efficiency of composite system under moderate climatic conditions   | % | 140             |
| Room heating energy efficiency of composite system under colder climatic conditions   | % | 145             |
| Room heating energy efficiency of composite system under warmer climatic conditions   | % | 139             |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 5               |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 1               |
| 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  |   | XL              |

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

|   |    | <b>WPC 10 S</b> |
|---|----|-----------------|
|   |    | 232939          |
| Manufacturer  |    | STIEBEL ELTRON  |
| With booster heater   |    | x               |
| Combi boiler with heat pump   |    | x               |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW | 12              |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 9               |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 9               |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 9.8             |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 9.50            |
| Tj = -7 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 9.4             |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 10              |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 9.80            |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 9.4             |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 10.2            |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 10.00           |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 9.6             |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 10.3            |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 10.20           |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 10.1            |
| Tj = dual mode temperature in colder climates (Pdh)   | kW | 9.6             |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 9.40            |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 9.4             |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 9.6             |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 9.40            |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 9.4             |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 9.40            |
| Dual mode temperature in colder climates (Tbiv)   | °C | -15             |
| Dual mode temperature in moderate climates (Tbiv)   | °C | -10             |
| Dual mode temperature in warmer climates (Tbiv)   | °C | 2               |
| Seasonal room heating efficiency in colder climates for average temperature applications (ηs)   | %  | 141             |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 136             |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 135             |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 3.53            |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 3.03            |
| Tj = -7 °C COP, partial load range in warmer climates (COPd)                                    |    | 2.9             |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.95            |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.55            |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.9             |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 4.33            |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.95            |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.3             |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 4.65            |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 4.43            |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 4.1             |
| Tj = dual mode temperature in colder climates (COPd)  |    | 3.31            |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |    | 2.90            |

|   |   |          |
|---|---|----------|
| Tj = dual mode temperature in warmer climates (COPd)                                      |   | 2.9      |
| Tj = operating temperature limit in colder climates (COPd)                                |   | 2.9      |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.90     |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.9      |
| For air/water heat pumps: Tj= -15 °C (if TOL < -20 °C) (COPd)                             |   | 2.90     |
| Heating water operating temperature limit (WTOL)  | °C  | 60       |
| Power consumption, OFF state (Poff)   | W   | 0.000    |
| Power consumption, thermostat OFF state (PTO)   | W   | 85       |
| Standby power consumption (PSB)   | W   | 10.000   |
| Power consumption, operating state, with crankcase heating (PCK)                          | W   | 0.000    |
| Booster heater heating output (PSUB)  | kW  | 0.000    |
| Type of energy supply, booster heater   |   | electric |
| Power control   |   | Fixed    |
| Sound power level internal  | dB(A)   | 49       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a   | 7799     |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a   | 5358     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a   | 3488     |
| Flow rate, heat source side   | m <sup>3</sup> /h   | 2.54     |
| Load profile  |   | XL       |
| Daily power consumption in colder climates (QELEC)  | kWh   | 7.01     |
| Daily power consumption (Qelec)   | kWh   | 7.01     |
| Daily power consumption in warmer climates (QELEC)  | kWh   | 7.01     |
| Annual power consumption in colder climates (AEC)   | kWh/a   | 1529     |
| Annual power consumption in moderate climates (AEC)                                       | kWh/a   | 1529     |
| Annual power consumption in warmer climates (AEC)   | kWh/a   | 1529     |
| Energy efficiency for DHW heating ( $\Gamma_{wh}$ ) under moderate climatic conditions    | %   | 110      |
| Special measures  | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |