



# ENERGY

**STIEBEL ELTRON**

WPF 16 cool



55 °C

35 °C



53 dB

|      |      |
|------|------|
| ■ 20 | ■ 21 |
| ■ 16 | ■ 17 |
| ■ 16 | ■ 17 |
| kW   | kW   |

2019

811/2013

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

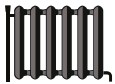
|   |   | <b>WPF 16 cool</b> |
|---|---|--------------------|
|   |   | 232920             |
| Manufacturer  |   | STIEBEL ELTRON     |
| Energy efficiency class for central heating in moderate climates for medium temperature applications    |   | A++                |
| Energy efficiency class for central heating in moderate climates for low temperature applications       |   | A+++               |
| Rated heating output in moderate climates for average temperature applications (Prated)                 | kW  | 16                 |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW  | 17                 |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %   | 134                |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %   | 189                |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a   | 9198               |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a   | 7128               |
| Sound power level internal  | dB(A)   | 53                 |
| 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  | 20                 |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW  | 21                 |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW  | 16                 |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW  | 17                 |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %   | 138                |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %   | 194                |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %   | 133                |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %   | 188                |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a   | 13352              |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a   | 10274              |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a   | 5987               |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a   | 4635               |



# ENERGY

**STIEBEL ELTRON**

WPF 16 cool



**A<sup>++</sup>**

**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

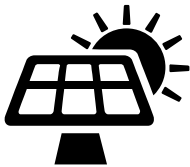
**D**

**E**

**F**

**G**

+



+



+



+



**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>WPF 16 cool</b> |
|---|---|--------------------|
|   |   | 232920             |
| Manufacturer  |   | STIEBEL ELTRON     |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 134                |
| 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   | % | 138                |
| Room heating energy efficiency of composite system under colder climatic conditions   | % | 142                |
| Room heating energy efficiency of composite system under warmer climatic conditions   | % | 137                |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 4                  |
| 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++                |

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

|   |    | WPF 16 cool    |
|---|----|----------------|
|   |    | 232920         |
| Manufacturer  |    | STIEBEL ELTRON |
| Heat source   |    | Brine          |
| With booster heater   |    | x              |
| Combi boiler with heat pump   |    | -              |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW | 20             |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 16             |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 16             |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 16.3           |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 15.90          |
| Tj = -7 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 15.8           |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 16.6           |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 16.30          |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 15.8           |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 16.8           |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 16.60          |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 16.1           |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 17             |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 16.90          |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 16.7           |
| Tj = dual mode temperature in colder climates (Pdh)   | kW | 16.1           |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 15.80          |
| Tj = dual mode temperature in warmer climates (Pdh)   | kW | 15.8           |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 15.8           |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 15.80          |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 15.8           |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 15.80          |
| 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)   | %  | 138            |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 134            |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 133            |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 3.47           |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 3.01           |
| Tj = -7 °C COP, partial load range in warmer climates (COPd)                                    |    | 2.89           |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.84           |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.49           |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.89           |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 4.19           |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.85           |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.26           |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 4.47           |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 4.27           |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 3.98           |
| Tj = dual mode temperature in colder climates (COPd)  |    | 3.27           |

|   |   |          |
|---|---|----------|
| Tj = dual mode temperature under moderate climatic conditions (COPd)                      |   | 2.89     |
| Tj = dual mode temperature in warmer climates (COPd)                                      |   | 2.89     |
| Tj = operating temperature limit in colder climates (COPd)                                |   | 2.89     |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |   | 2.89     |
| Tj = operating temperature limit in warmer climates (COPd)                                |   | 2.89     |
| For air/water heat pumps:Tj= -15 °C (if TOL< -20 °C) (COPd)                               |   | 2.89     |
| Heating water operating temperature limit (WTOL)  | °C  | 65       |
| Power consumption, OFF state (Poff)   | W   | 0.000    |
| Power consumption, thermostat OFF state (PTO)   | W   | 139      |
| Standby power consumption (PSB)   | W   | 9.000    |
| 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)   | 53       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a   | 13352    |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a   | 9198     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a   | 5987     |
| Flow rate, heat source side   | m <sup>3</sup> /h   | 4.20     |
| Special measures  | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |