

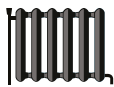


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**STIEBEL ELTRON**

WPF 20



55 °C

35 °C

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

A<sup>++</sup>

A<sup>+++</sup>



59 dB



59 dB

25

20

20

kW

27

22

22

kW



2019

811/2013

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

|                                                                                                         |                                                                                                                                         | <b>WPF 20</b>  |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                                         |                                                                                                                                         | 233003         |
| 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                                                                                                                                      | 20             |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW                                                                                                                                      | 22             |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %                                                                                                                                       | 131            |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %                                                                                                                                       | 192            |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a                                                                                                                                   | 11988          |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a                                                                                                                                   | 8904           |
| Sound power level internal                                                                              | dB(A)                                                                                                                                   | 59             |
| Sound power level external                                                                              | dB(A)                                                                                                                                   | 59             |
| 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                                                                                                                                      | 25             |
| Rated heating output in colder climates for low temperature applications (Prated)                       | kW                                                                                                                                      | 27             |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW                                                                                                                                      | 20             |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW                                                                                                                                      | 22             |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %                                                                                                                                       | 137            |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %                                                                                                                                       | 201            |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %                                                                                                                                       | 128            |
| 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                                                                                                                                   | 17067          |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a                                                                                                                                   | 12535          |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a                                                                                                                                   | 7884           |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a                                                                                                                                   | 5871           |



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**STIEBEL ELTRON**

WPF 20



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

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

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

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

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

**A**

**B**

**C**

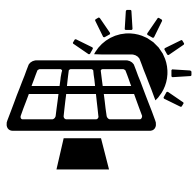
**D**

**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 20</b>  |
|-------------------------------------------------------------------------------------------------------------------------------------------|---|----------------|
|                                                                                                                                           |   | 233003         |
| Manufacturer                                                                                                                              |   | STIEBEL ELTRON |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 131            |
| Temperature controller class                                                                                                              |   | VII            |
| Contribution of temperature controller to room heating energy efficiency                                                                  | % | 3              |
| Room heating energy efficiency of composite system under moderate climatic conditions                                                     | % | 135            |
| Room heating energy efficiency of composite system under colder climatic conditions                                                       | % | 141            |
| Room heating energy efficiency of composite system under warmer climatic conditions                                                       | % | 132            |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 6              |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 3              |
| 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**

|                                                                                                 |    | <b>WPF 20</b>  |
|-------------------------------------------------------------------------------------------------|----|----------------|
|                                                                                                 |    | 233003         |
| Manufacturer                                                                                    |    | STIEBEL ELTRON |
| Heat source                                                                                     |    | Brine          |
| With booster heater                                                                             |    | -              |
| Combi boiler with heat pump                                                                     |    | -              |
| Rated heating output in colder climates for average temperature applications (Prated)           | kW | 25             |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 20             |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 20             |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 20.7           |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 20.2           |
| Tj = -7 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 20.1           |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 21.0           |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 20.7           |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 20.1           |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 21.3           |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 21.0           |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 20.5           |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 21.5           |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 21.3           |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 21.1           |
| Tj = dual mode temperature in colder climates (Pdh)                                             | kW | 20.5           |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 20.1           |
| Tj = dual mode temperature in warmer climates (Pdh)                                             | kW | 20.1           |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 20.1           |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 20.1           |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 20.1           |
| For air/water heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                   | kW | 20.1           |
| 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)   | %  | 137            |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 131            |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 128            |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 3.46           |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 2.96           |
| Tj = -7 °C COP, partial load range in warmer climates (COPd)                                    |    | 2.84           |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 3.87           |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.48           |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 2.84           |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 4.26           |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 3.88           |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.24           |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 4.60           |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 4.36           |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 4.03           |
| Tj = dual mode temperature in colder climates (COPd)                                            |    | 3.24           |

|                                                                                           |                                                                                                                                         |          |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Tj = dual mode temperature under moderate climatic conditions (COPd)                      |                                                                                                                                         | 2.84     |
| Tj = dual mode temperature in warmer climates (COPd)                                      |                                                                                                                                         | 2.84     |
| Tj = operating temperature limit in colder climates (COPd)                                |                                                                                                                                         | 2.84     |
| Tj = operating temperature limit under moderate climatic conditions (COPd)                |                                                                                                                                         | 2.84     |
| Tj = operating temperature limit in warmer climates (COPd)                                |                                                                                                                                         | 2.84     |
| For air/water heat pumps: Tj= -15 °C (if TOL < -20 °C) (COPd)                             |                                                                                                                                         | 2.84     |
| Heating water operating temperature limit (WTOL)                                          | °C                                                                                                                                      | 60       |
| Power consumption, OFF state (Poff)                                                       | W                                                                                                                                       | 0.000    |
| Power consumption, thermostat OFF state (PTO)                                             | W                                                                                                                                       | 7        |
| Standby power consumption (PSB)                                                           | W                                                                                                                                       | 7        |
| Power consumption, operating state, with crankcase heating (PCK)                          | W                                                                                                                                       | 74       |
| Booster heater heating output (PSUB)                                                      | kW                                                                                                                                      | 0.0      |
| Type of energy supply, booster heater                                                     |                                                                                                                                         | electric |
| Power control                                                                             |                                                                                                                                         | Fixed    |
| Sound power level external                                                                | dB(A)                                                                                                                                   | 59       |
| Sound power level internal                                                                | dB(A)                                                                                                                                   | 59       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a                                                                                                                                   | 17067    |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a                                                                                                                                   | 11988    |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a                                                                                                                                   | 7884     |
| Flow rate, heat source side                                                               | m³/h                                                                                                                                    | 5        |
| Special measures                                                                          | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |