



# ENERGY

**STIEBEL ELTRON**

WPE-I 12 HW 230  
Premium



**A+++**



**A**

44 dB



- 12 kW
- 12 kW
- 12 kW

2019

811/2013

**Product datasheet: Combi heater to regulation (EU) no. 811/2013**

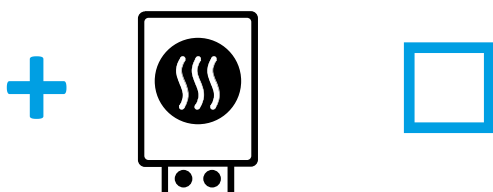
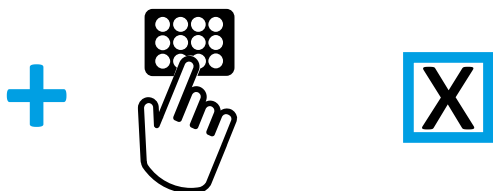
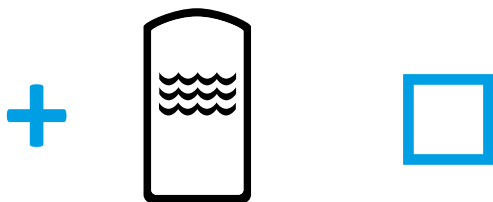
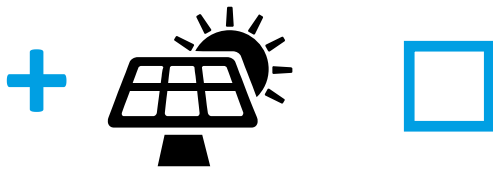
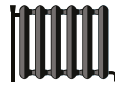
|                                                                                                         |       | <b>WPE-I 12 HW 230 Premium</b>                                                                                                          |
|---------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |       | 202478                                                                                                                                  |
| 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    | 12                                                                                                                                      |
| Rated heating output in moderate climates for low temperature applications (Prated)                     | kW    | 12                                                                                                                                      |
| Annual energy consumption in moderate climates for average temperature applications (QHE)               | kWh/a | 5607                                                                                                                                    |
| Annual energy consumption in moderate climates for low temperature applications (QHE)                   | kWh/a | 4445                                                                                                                                    |
| Annual power consumption in moderate climates (AEC)                                                     | kWh/a | 1451                                                                                                                                    |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ ) | %     | 168.8                                                                                                                                   |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\eta_s$ )     | %     | 215.6                                                                                                                                   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under moderate climatic conditions                    | %     | 115                                                                                                                                     |
| Sound power level internal                                                                              | dB(A) | 44                                                                                                                                      |
| 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    | 12                                                                                                                                      |
| Rated heating output in warmer climates for average temperature applications (Prated)                   | kW    | 12                                                                                                                                      |
| Rated heating output in warmer climates for low temperature applications (Prated)                       | kW    | 12                                                                                                                                      |
| Annual energy consumption in colder climates for average temperature applications (QHE)                 | kWh/a | 6485                                                                                                                                    |
| Annual energy consumption in colder climates for low temperature applications (QHE)                     | kWh/a | 5108                                                                                                                                    |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                 | kWh/a | 3650                                                                                                                                    |
| Annual energy consumption in warmer climates for low temperature applications (QHE)                     | kWh/a | 2896                                                                                                                                    |
| Annual power consumption in colder climates (AEC)                                                       | kWh/a | 1451                                                                                                                                    |
| Annual power consumption in warmer climates (AEC)                                                       | kWh/a | 1451                                                                                                                                    |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta_s$ )   | %     | 174.3                                                                                                                                   |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta_s$ )       | %     | 224.1                                                                                                                                   |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta_s$ )   | %     | 167.6                                                                                                                                   |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\eta_s$ )       | %     | 213.9                                                                                                                                   |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under colder climatic conditions                      | %     | 115                                                                                                                                     |
| Energy efficiency for DHW heating ( $\eta_{wh}$ ) under warmer climatic conditions                      | %     | 115                                                                                                                                     |
| Operation exclusively enabled during low load times                                                     |       | -                                                                                                                                       |



# ENERGY

**STIEBEL ELTRON**

WPE-I 12 HW 230 Premium



**Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013**

|                                                                                                                                           |   | <b>WPE-I 12 HW 230 Premium</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------|
|                                                                                                                                           |   | 202478                         |
| Manufacturer                                                                                                                              |   | STIEBEL ELTRON                 |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta_s$ )                                   | % | 168.8                          |
| Contribution of temperature controller to room heating energy efficiency                                                                  | % | 3.5                            |
| Room heating energy efficiency of composite system under moderate climatic conditions                                                     | % | 172.3                          |
| Room heating energy efficiency of composite system under colder climatic conditions                                                       | % | 177.8                          |
| Room heating energy efficiency of composite system under warmer climatic conditions                                                       | % | 171.1                          |
| Value of differential between room heating energy efficiency under moderate climatic conditions and that under colder climatic conditions | % | 5.6                            |
| Value of differential between room heating energy efficiency under warmer climatic conditions and that under moderate climatic conditions | % | 1.2                            |
| 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

|                                                                                                 |    | WPE-I 12 HW 230 Premium |
|-------------------------------------------------------------------------------------------------|----|-------------------------|
|                                                                                                 |    | 202478                  |
| Manufacturer                                                                                    |    | STIEBEL ELTRON          |
| Heat source                                                                                     |    | Brine                   |
| 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 | 12                      |
| Rated heating output in moderate climates for average temperature applications (Prated)         | kW | 12                      |
| Rated heating output in warmer climates for average temperature applications (Prated)           | kW | 12                      |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                          | kW | 7.24                    |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 10.59                   |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                           | kW | 4.4                     |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 6.44                    |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 11.99                   |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                           | kW | 2.82                    |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)           | kW | 4.13                    |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                           | kW | 7.69                    |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                          | kW | 2.23                    |
| Tj = 12 °C heating output, partial load range under moderate climatic conditions (Pdh)          | kW | 2.21                    |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                          | kW | 3.41                    |
| Tj = dual mode temperature in colder climates (Pdh)                                             | kW | 11.99                   |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                             | kW | 11.99                   |
| Tj = dual mode temperature in warmer climates (Pdh)                                             | kW | 11.99                   |
| Tj = operating temperature limit in colder climates (Pdh)                                       | kW | 11.99                   |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                       | kW | 11.99                   |
| Tj = operating temperature limit in warmer climates (Pdh)                                       | kW | 11.99                   |
| Dual mode temperature in colder climates (Tbiv)                                                 | °C | -22                     |
| 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)   | %  | 174.3                   |
| Seasonal room heating efficiency in moderate climates for average temperature applications (ηs) | %  | 168.8                   |
| Seasonal room heating efficiency in warmer climates for average temperature applications (ηs)   | %  | 167.6                   |
| Tj = -7 °C COP, partial load range in colder climates (COPd)                                    |    | 4.31                    |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 3.55                    |
| Tj = 2 °C COP, partial load range in colder climates (COPd)                                     |    | 4.91                    |
| Tj = 2 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.49                    |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)                                     |    | 3.29                    |
| Tj = 7 °C COP, partial load range in colder climates (COPd)                                     |    | 5.16                    |
| Tj = 7 °C COP, partial load range under moderate climatic conditions (COPd)                     |    | 4.99                    |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)                                     |    | 4.12                    |
| Tj = 12 °C COP, partial load range in colder climates (COPd)                                    |    | 5.4                     |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                    |    | 5,25                    |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)                                    |    | 5.1                     |
| Tj = dual mode temperature in colder climates (COPd)                                            |    | 3.29                    |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                            |    | 3.29                    |
| Tj = dual mode temperature in warmer climates (COPd)                                            |    | 3.29                    |

|                                                                                                     |                                                                                                                                         |          |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| T <sub>j</sub> = operating temperature limit in colder climates (COP <sub>d</sub> )                 |                                                                                                                                         | 3.29     |
| T <sub>j</sub> = operating temperature limit under moderate climatic conditions (COP <sub>d</sub> ) |                                                                                                                                         | 3.29     |
| T <sub>j</sub> = operating temperature limit in warmer climates (COP <sub>d</sub> )                 |                                                                                                                                         | 3.29     |
| Operating temperature limit in moderate climates (TOL)                                              | °C                                                                                                                                      | -10      |
| Heating water operating temperature limit (WTOL)                                                    | °C                                                                                                                                      | 75       |
| Power consumption, OFF state (P <sub>off</sub> )                                                    | W                                                                                                                                       | 19       |
| Power consumption, thermostat OFF state (PTO)                                                       | W                                                                                                                                       | 19       |
| Standby power consumption (PSB)                                                                     | W                                                                                                                                       | 19       |
| Power consumption, operating state, with crankcase heating (PCK)                                    | W                                                                                                                                       | 0        |
| Booster heater heating output in colder climates (P <sub>sup</sub> )                                | kW                                                                                                                                      | 0        |
| Booster heater heating output (P <sub>SUB</sub> )                                                   | kW                                                                                                                                      | 0        |
| Booster heater heating output in warmer climates (P <sub>sup</sub> )                                | kW                                                                                                                                      | 0        |
| Type of energy supply, booster heater                                                               |                                                                                                                                         | electric |
| Power control                                                                                       |                                                                                                                                         | variable |
| Sound power level internal                                                                          | dB(A)                                                                                                                                   | 44       |
| Annual energy consumption in colder climates for average temperature applications (QHE)             | kWh/a                                                                                                                                   | 6485     |
| Annual energy consumption in moderate climates for average temperature applications (QHE)           | kWh/a                                                                                                                                   | 5607     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)             | kWh/a                                                                                                                                   | 3650     |
| Flow rate, heat source side                                                                         | m <sup>3</sup> /h                                                                                                                       | 1,08     |
| Load profile                                                                                        |                                                                                                                                         | XL       |
| Daily power consumption in colder climates (QELEC)                                                  | kWh                                                                                                                                     | 6.61     |
| Daily power consumption (Qelec)                                                                     | kWh                                                                                                                                     | 6.61     |
| Daily power consumption in warmer climates (QELEC)                                                  | kWh                                                                                                                                     | 6.61     |
| Annual power consumption in colder climates (AEC)                                                   | kWh/a                                                                                                                                   | 1451     |
| Annual power consumption in moderate climates (AEC)                                                 | kWh/a                                                                                                                                   | 1451     |
| Annual power consumption in warmer climates (AEC)                                                   | kWh/a                                                                                                                                   | 1451     |
| Energy efficiency for DHW heating (Γ <sub>wh</sub> ) under moderate climatic conditions             | %                                                                                                                                       | 115      |
| Special measures                                                                                    | For all special measures to be taken during assembly, installation or maintenance of the room heater, see the installation instructions |          |