



# ENERGY

HPA-O 10.2 W Plus HC 230

## STIEBEL ELTRON



55 °C

35 °C



- dB

**46 dB**

|      |      |
|------|------|
| ■ 11 | ■ 11 |
| ■ 12 | ■ 12 |
| ■ 6  | ■ 6  |
| kW   | kW   |

2019

811/2013

**Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)**

|  |   | <b>HPA-O 10.2 W Plus HC 230</b> |
|--|---|---------------------------------|
|  |   | 208433                          |
| Manufacturer   |   | STIEBEL ELTRON                  |
| Space heating energy efficiency class under average climate conditions, medium-temperature applications (A+++ -> D)        |   | A+++                            |
| Energy efficiency class, space heating under average climate conditions, low-temperature applications (A+++ -> D)          |   | A+++                            |
| Rated heating output under average climate conditions for medium-temperature applications (P rated)                        | kW  | 12                              |
| Rated heating output under average climate conditions for low-temperature applications (P rated)                           | kW  | 12                              |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications ( $\eta_s$ ) | %   | 157                             |
| Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta_s$ )    | %   | 195                             |
| Annual energy consumption under average climate conditions for medium-temperature applications (QHE)                       | kWh/a   | 5951                            |
| Annual energy consumption under average climate conditions for low-temperature applications (QHE)                          | kWh/a   | 4855                            |
| Sound power level, indoor  |   | -                               |
| Option for operation only at off-peak times  |   | -                               |
| Special measures   | Alle beim Zusammenbau, der Installation oder<br>Wartung des Raumheizgerätes zu treffenden<br>besonderen Vorkehrungen: Siehe Installation- und<br>Montageanweisung |                                 |
| Rated heating output under colder climate conditions for medium-temperature applications (P rated)                         | kW  | 11                              |
| Rated heating output under colder climate conditions for low-temperature applications (P rated)                            | kW  | 11                              |
| Rated heating output under warmer climate conditions for medium-temperature applications (P rated)                         | kW  | 6                               |
| Rated heating output under warmer climate conditions for low-temperature applications (P rated)                            | kW  | 6                               |
| Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications ( $\eta_s$ )  | %   | 143                             |
| Seasonal space heating energy efficiency under colder climate conditions for low-temperature applications ( $\eta_s$ )     | %   | 175                             |
| Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications ( $\eta_s$ )  | %   | 180                             |
| Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ )     | %   | 248                             |
| Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)                        | kWh/a   | 7499                            |
| Annual energy consumption under colder climate conditions for low-temperature applications (QHE)                           | kWh/a   | 6274                            |
| Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)                        | kWh/a   | 1792                            |
| Annual energy consumption under warmer climate conditions for low-temperature applications (QHE)                           | kWh/a   | 1262                            |
| Sound power level, outdoor   | dB(A)   | 46                              |



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HPA-O 10.2 W Plus HC 230

## STIEBEL ELTRON



A<sup>+++</sup>

A<sup>+++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

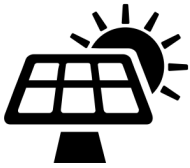
D

E

F

G

+



+



+



+



**Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)**

|   |   | <b>HPA-O 10.2 W Plus HC 230</b> |
|---|---|---------------------------------|
|   |   | 208433                          |
| Manufacturer  |   | STIEBEL ELTRON                  |
| Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta_s$ )                 | % | 195                             |
| Temperature control class   |   | VI                              |
| Contribution of temperature control to space heating energy efficiency  | % | 4                               |
| Space heating energy efficiency of package under average climate conditions   | % | 161                             |
| Space heating energy efficiency of package under colder climate conditions  | % | 147                             |
| Space heating energy efficiency of package under warmer climate conditions  | % | 184                             |
| Value of differential between space heating energy efficiency under average climate conditions and that under colder climate conditions | % | 14                              |
| Value of differential between space heating energy efficiency under warmer climate conditions and that under average climate conditions | % | 23                              |
| Energy efficiency class, space heating under average climate conditions, low-temperature applications (A+++ -> D)                       |   | A+++                            |
| Space heating energy efficiency class of package under average climate conditions (A+++ -> D)   |   | A+++                            |

**Product datasheet: Space heater to Regulation (EU) No 811/2013 (S.I. 2019 No. 539 / Programme 2)**

|  |        | <b>HPA-O 10.2 W Plus HC 230</b> |
|--|--------|---------------------------------|
|  |        | 208433                          |
| Manufacturer   |        | STIEBEL ELTRON                  |
| Heat source  |        | Luft                            |
| Low temperature heat pump  |        | -                               |
| With auxiliary heater  |        | -                               |
| Combination heater with heat pump  |        | -                               |
| Rated heating output under colder climate conditions for medium-temperature applications (P rated)                 | kW     | 11                              |
| Rated heating output under average climate conditions for medium-temperature applications (P rated)                | kW     | 12                              |
| Rated heating output under warmer climate conditions for medium-temperature applications (P rated)                 | kW     | 6                               |
| Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)                                | kW     | 6.8                             |
| Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)                               | kW     | 10.2                            |
| Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)                                 | kW     | 4.1                             |
| Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)                                | kW     | 6.2                             |
| Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)                                 | kW     | 6.1                             |
| Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)                                 | kW     | 3.8                             |
| Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)                                | kW     | 3.9                             |
| Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)                                 | kW     | 3.9                             |
| Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)                                | kW     | 4.4                             |
| Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)                               | kW     | 4.4                             |
| Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)                                | kW     | 4.3                             |
| Tj = dual mode temperature under colder climate conditions (Pdh)   | kW     | 9.1                             |
| Tj = dual mode temperature under average climate conditions (Pdh)  | kW     | 10.2                            |
| Tj = dual mode temperature under warmer climate conditions (Pdh)   | kW     | 6.1                             |
| Tj = operating temperature limit under colder climate conditions (Pdh)   | kW     | 6.7                             |
| Tj = operating temperature limit under average climate conditions (Pdh)  | kW     | 9.5                             |
| Tj = operating temperature limit under warmer climate conditions (Pdh)   | kW     | 6.1                             |
| For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)   | kW     | 9.1                             |
| Dual mode temperature under colder climate conditions (Tbiv)   | Grad C | -15                             |
| Dual mode temperature under average climate conditions (Tbiv)  | Grad C | -7                              |
| Dual mode temperature under warmer climate conditions (Tbiv)   | Grad C | 2                               |
| Seasonal space heating energy efficiency under colder climate conditions for medium-temperature applications (ηs)  | %      | 143                             |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) | %      | 157                             |
| Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)  | %      | 180                             |
| Tj = -7 °C COP, partial load range under colder climate conditions (COPd)  |        | 3.1                             |
| Tj = -7 °C COP, partial load range under average climate conditions (COPd)   |        | 2.6                             |
| Tj = 2 °C COP, partial load range under colder climate conditions (COPd)   |        | 4.2                             |
| Tj = 2 °C COP, partial load range under average climate conditions (COPd)  |        | 3.8                             |
| Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)   |        | 2.9                             |
| Tj = 7 °C COP, partial load range under colder climate conditions (COPd)   |        | 5.6                             |
| Tj = 7 °C COP, partial load range under average climate conditions (COPd)  |        | 5.3                             |

|  |  |              |
|--|--|--------------|
| Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)                             |  | 4            |
| Tj = 12 °C COP, partial load range under colder climate conditions (COPd)                            |  | 6.8          |
| Tj = 12 °C COP, partial load range under average climate conditions (COPd)                           |  | 6.6          |
| Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)                            |  | 5.7          |
| Tj = dual mode temperature under colder climate conditions (COPd)                                    |  | 2.5          |
| Tj = dual mode temperature under average climate conditions (COPd)                                   |  | 2.6          |
| Tj = dual mode temperature under warmer climate conditions (COPd)                                    |  | 2.9          |
| Tj = operating temperature limit under colder climate conditions (COPd)                              |  | 2            |
| Tj = operating temperature limit under average climate conditions (COPd)                             |  | 2.4          |
| Tj = operating temperature limit under warmer climate conditions (COPd)                              |  | 2.9          |
| For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)                                      |  | 2.5          |
| Operating temperature limit under colder climate conditions (TOL)                                    | Grad C   | -22          |
| Operating temperature limit under average climate conditions (TOL)                                   | Grad C   | -10          |
| Operating temperature limit under warmer climate conditions (TOL)                                    | Grad C   | 2            |
| Operating temperature limit of heating water under colder climate conditions (WTOL)                  | Grad C   | 75           |
| Operating temperature limit of heating water under average climate conditions (WTOL)                 | Grad C   | 75           |
| Operating temperature limit of heating water under warmer climate conditions (WTOL)                  | Grad C   | 75           |
| Power consumption, off-mode (Poff)   | Watt   | 13           |
| Power consumption, thermostat off-mode (PTO)   | Watt   | 17           |
| Power consumption, standby state (PSB)   | Watt   | 13           |
| Power consumption, operating state, with crankcase heating (PCK)                                     | Watt   | 0            |
| Rated heating output of auxiliary heater under colder climate conditions (PSUP)                      | kW   | 4.5          |
| Rated heating output of auxiliary heater under average climate conditions (PSUP)                     | kW   | 2            |
| Rated heating output of auxiliary heater under warmer climate conditions (PSUP)                      | kW   | 0            |
| Type of energy supply, auxiliary heater  |  | elektrisch   |
| Output control   |  | veränderlich |
| Sound power level, outdoor   | dB(A)  | 46           |
| Sound power level, indoor  |  | -            |
| Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)  | kWh/a  | 7499         |
| Annual energy consumption under average climate conditions for medium-temperature applications (QHE) | kWh/a  | 5951         |
| Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)  | kWh/a  | 1792         |
| Flow rate on heat source side  | m <sup>3</sup> /h  | 4600         |
| Special measures   | Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: Siehe Installation- und Montageanweisung |              |