



# ENERGY

HPA-O 10.2 Plus HC 230

**STIEBEL ELTRON**



55 °C

35 °C



**A+++**

**A+++**



**46 dB**

■ 11  
■ 12  
■ 6  
kW

■ 11  
■ 12  
■ 6  
kW



2019

811/2013

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

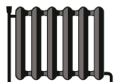
|                                                                                                                            |       | <b>HPA-O 10.2 Plus HC 230</b> |
|----------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------|
|                                                                                                                            |       | 207432                        |
| Manufacturer                                                                                                               |       | STIEBEL ELTRON                |
| Space heating energy efficiency class under average climate conditions, medium-temperature applications                    |       | A+++                          |
| Energy efficiency class, space heating under average climate conditions, low-temperature applications                      |       | 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                          |
| Option for operation only at off-peak times                                                                                |       | -                             |
| 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                            |



# ENERGY

HPA-O 10.2 Plus HC 230

**STIEBEL ELTRON**



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

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

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

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

**A**

**B**

**C**

**D**

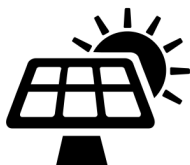
**E**

**F**

**G**

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

+



+



+



+



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

|                                                                                                                                         |   | <b>HPA-O 10.2 Plus HC 230</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|
|                                                                                                                                         |   | 207432                        |
| Manufacturer                                                                                                                            |   | STIEBEL ELTRON                |
| Seasonal space heating energy efficiency under average climate conditions for low-temperature applications ( $\eta_s$ )                 | % | 195                           |
| Temperature control class                                                                                                               |   | IV                            |
| 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+++                          |
| Space heating energy efficiency class of package under average climate conditions                                                       |   | A+++                          |

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

|                                                                                                                    |    | <b>HPA-O 10.2 Plus HC 230</b> |
|--------------------------------------------------------------------------------------------------------------------|----|-------------------------------|
|                                                                                                                    |    | 207432                        |
| 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)                                                       | °C | -15                           |
| Dual mode temperature under average climate conditions (Tbiv)                                                      | °C | -7                            |
| Dual mode temperature under warmer climate conditions (Tbiv)                                                       | °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)                                          |    | 3,13                          |
| Tj = -7 °C COP, partial load range under average climate conditions (COPd)                                         |    | 2,63                          |
| Tj = 2 °C COP, partial load range under colder climate conditions (COPd)                                           |    | 4,22                          |
| Tj = 2 °C COP, partial load range under average climate conditions (COPd)                                          |    | 3,79                          |
| Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)                                           |    | 2,90                          |
| Tj = 7 °C COP, partial load range under colder climate conditions (COPd)                                           |    | 5,56                          |
| Tj = 7 °C COP, partial load range under average climate conditions (COPd)                                          |    | 5,32                          |

|                                                                                                      |       |              |
|------------------------------------------------------------------------------------------------------|-------|--------------|
| Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)                             |       | 4,02         |
| Tj = 12 °C COP, partial load range under colder climate conditions (COPd)                            |       | 6,76         |
| Tj = 12 °C COP, partial load range under average climate conditions (COPd)                           |       | 6,57         |
| Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)                            |       | 5,73         |
| Tj = dual mode temperature under colder climate conditions (COPd)                                    |       | 2,46         |
| Tj = dual mode temperature under average climate conditions (COPd)                                   |       | 2,63         |
| Tj = dual mode temperature under warmer climate conditions (COPd)                                    |       | 2,90         |
| Tj = operating temperature limit under colder climate conditions (COPd)                              |       | 1,98         |
| Tj = operating temperature limit under average climate conditions (COPd)                             |       | 2,42         |
| Tj = operating temperature limit under warmer climate conditions (COPd)                              |       | 2,90         |
| For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)                                      |       | 2,46         |
| Operating temperature limit under colder climate conditions (TOL)                                    | °C    | -22          |
| Operating temperature limit under average climate conditions (TOL)                                   | °C    | -10          |
| Operating temperature limit under warmer climate conditions (TOL)                                    | °C    | 2            |
| Operating temperature limit of heating water under colder climate conditions (WTOL)                  | °C    | 75           |
| Operating temperature limit of heating water under average climate conditions (WTOL)                 | °C    | 75           |
| Operating temperature limit of heating water under warmer climate conditions (WTOL)                  | °C    | 75           |
| Power consumption, off-mode (Poff)                                                                   | W     | 13           |
| Power consumption, thermostat off-mode (PTO)                                                         | W     | 17           |
| Power consumption, standby state (PSB)                                                               | W     | 13           |
| Power consumption, operating state, with crankcase heating (PCK)                                     | W     | 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    | 2,0          |
| Rated heating output of auxiliary heater under warmer climate conditions (PSUP)                      | kW    | 0,0          |
| Type of energy supply, auxiliary heater                                                              |       | elektrisch   |
| Output control                                                                                       |       | veränderlich |
| Sound power level, outdoor                                                                           | dB(A) | 46           |
| 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         |