

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

|                                                                                                                    |        | <b>HPA-O 4 CS Plus compact D Set S 1.2</b> |
|--------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------|
|                                                                                                                    |        | 207655                                     |
| 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     | 5                                          |
| Rated heating output under average climate conditions for medium-temperature applications (P rated)                | kW     | 4                                          |
| Rated heating output under warmer climate conditions for medium-temperature applications (P rated)                 | kW     | 4                                          |
| Tj = -7 °C heating output, partial load range under colder climate conditions (Pdh)                                | kW     | 3.2                                        |
| Tj = -7 °C heating output, partial load range under average climate conditions (Pdh)                               | kW     | 2.8                                        |
| Tj = 2 °C heating output, partial load range under colder climate conditions (Pdh)                                 | kW     | 2                                          |
| Tj = 2 °C heating output, partial load range under average climate conditions (Pdh)                                | kW     | 2                                          |
| Tj = 2 °C heating output, partial load range under warmer climate conditions (Pdh)                                 | kW     | 3.9                                        |
| Tj = 7 °C heating output, partial load range under colder climate conditions (Pdh)                                 | kW     | 1.3                                        |
| Tj = 7 °C heating output, partial load range under average climate conditions (Pdh)                                | kW     | 1.2                                        |
| Tj = 7 °C heating output, partial load range under warmer climate conditions (Pdh)                                 | kW     | 2.5                                        |
| Tj = 12 °C heating output, partial load range under colder climate conditions (Pdh)                                | kW     | 1.6                                        |
| Tj = 12 °C heating output, partial load range under average climate conditions (Pdh)                               | kW     | 1.5                                        |
| Tj = 12 °C heating output, partial load range under warmer climate conditions (Pdh)                                | kW     | 1.5                                        |
| Tj = dual mode temperature under colder climate conditions (Pdh)                                                   | kW     | 3.6                                        |
| Tj = dual mode temperature under average climate conditions (Pdh)                                                  | kW     | 3.1                                        |
| Tj = dual mode temperature under warmer climate conditions (Pdh)                                                   | kW     | 3.9                                        |
| Tj = operating temperature limit under colder climate conditions (Pdh)                                             | kW     | 3.2                                        |
| Tj = operating temperature limit under average climate conditions (Pdh)                                            | kW     | 3.4                                        |
| Tj = operating temperature limit under warmer climate conditions (Pdh)                                             | kW     | 3.9                                        |
| For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (Pdh)                                                     | kW     | 0                                          |
| Dual mode temperature under colder climate conditions (Tbiv)                                                       | Grad C | -9                                         |
| Dual mode temperature under average climate conditions (Tbiv)                                                      | Grad C | -5                                         |
| 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)  | %      | 105                                        |
| Seasonal space heating energy efficiency under average climate conditions for medium-temperature applications (ηs) | %      | 116                                        |
| Seasonal space heating energy efficiency under warmer climate conditions for medium-temperature applications (ηs)  | %      | 139                                        |
| Tj = -7 °C COP, partial load range under colder climate conditions (COPd)                                          |        | 2.3                                        |
| Tj = -7 °C COP, partial load range under average climate conditions (COPd)                                         |        | 2                                          |
| Tj = 2 °C COP, partial load range under colder climate conditions (COPd)                                           |        | 3.4                                        |
| Tj = 2 °C COP, partial load range under average climate conditions (COPd)                                          |        | 2.9                                        |
| Tj = 2 °C COP, partial load range under warmer climate conditions (COPd)                                           |        | 2.1                                        |
| Tj = 7 °C COP, partial load range under colder climate conditions (COPd)                                           |        | 4.7                                        |
| Tj = 7 °C COP, partial load range under average climate conditions (COPd)                                          |        | 4.1                                        |

|                                                                                                                        |        |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tj = 7 °C COP, partial load range under warmer climate conditions (COPd)                                               |        | 3.2                                                                                                                                                      |
| Tj = 12 °C COP, partial load range under colder climate conditions (COPd)                                              |        | 5.6                                                                                                                                                      |
| Tj = 12 °C COP, partial load range under average climate conditions (COPd)                                             |        | 5.1                                                                                                                                                      |
| Tj = 12 °C COP, partial load range under warmer climate conditions (COPd)                                              |        | 4.6                                                                                                                                                      |
| Tj = dual mode temperature under colder climate conditions (COPd)                                                      |        | 2.1                                                                                                                                                      |
| Tj = dual mode temperature under average climate conditions (COPd)                                                     |        | 2.2                                                                                                                                                      |
| Tj = dual mode temperature under warmer climate conditions (COPd)                                                      |        | 2.1                                                                                                                                                      |
| Tj = operating temperature limit under colder climate conditions (COPd)                                                |        | 2.3                                                                                                                                                      |
| Tj = operating temperature limit under average climate conditions (COPd)                                               |        | 2                                                                                                                                                        |
| Tj = operating temperature limit under warmer climate conditions (COPd)                                                |        | 2.1                                                                                                                                                      |
| For air source heat pumps: Tj = -15 °C (if TOL < -20 °C) (COPd)                                                        |        | 0                                                                                                                                                        |
| Operating temperature limit under colder climate conditions (TOL)                                                      | Grad C | -15                                                                                                                                                      |
| Operating temperature limit under average climate conditions (TOL)                                                     | Grad C | -5                                                                                                                                                       |
| Operating temperature limit under warmer climate conditions (TOL)                                                      | Grad C | 2                                                                                                                                                        |
| Operating temperature limit of heating water under colder climate conditions (WTOL)                                    | Grad C | 60                                                                                                                                                       |
| Operating temperature limit of heating water under average climate conditions (WTOL)                                   | Grad C | 60                                                                                                                                                       |
| Operating temperature limit of heating water under warmer climate conditions (WTOL)                                    | Grad C | 17                                                                                                                                                       |
| Power consumption, off-mode (Poff)                                                                                     | Watt   | 17                                                                                                                                                       |
| Power consumption, thermostat off-mode (PTO)                                                                           | Watt   | 30                                                                                                                                                       |
| Power consumption, standby state (PSB)                                                                                 | Watt   | 17                                                                                                                                                       |
| Power consumption, operating state, with crankcase heating (PCK)                                                       | Watt   | 5                                                                                                                                                        |
| Rated heating output of auxiliary heater under colder climate conditions (PSUP)                                        | kW     | 5.5                                                                                                                                                      |
| Rated heating output of auxiliary heater under average climate conditions (PSUP)                                       | kW     | 3.8                                                                                                                                                      |
| 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)  | 52                                                                                                                                                       |
| Sound power level, indoor                                                                                              |        | -                                                                                                                                                        |
| Annual energy consumption under colder climate conditions for medium-temperature applications (QHE)                    | kWh/a  | 4884                                                                                                                                                     |
| Annual energy consumption under average climate conditions for medium-temperature applications (QHE)                   | kWh/a  | 2618                                                                                                                                                     |
| Annual energy consumption under warmer climate conditions for medium-temperature applications (QHE)                    | kWh/a  | 1467                                                                                                                                                     |
| Flow rate on heat source side                                                                                          | m3/h   | 1300                                                                                                                                                     |
| Load profile                                                                                                           |        | -                                                                                                                                                        |
| Daily power consumption under colder climate conditions (QELEC)                                                        |        | -                                                                                                                                                        |
| Daily power consumption under average climate conditions (QELEC)                                                       |        | -                                                                                                                                                        |
| Daily power consumption under warmer climate conditions (QELEC)                                                        |        | -                                                                                                                                                        |
| Annual power consumption under colder climate conditions (AEC)                                                         |        | -                                                                                                                                                        |
| Annual power consumption under average climate conditions (AEC)                                                        |        | -                                                                                                                                                        |
| Annual power consumption under warmer climate conditions (AEC)                                                         |        | -                                                                                                                                                        |
| Seasonal space heating energy efficiency under warmer climate conditions for low-temperature applications ( $\eta_s$ ) | %      | 206                                                                                                                                                      |
| Energy efficiency, DHW heating ( $\eta_{wh}$ ), under average climate conditions                                       |        | -                                                                                                                                                        |
| Energy efficiency, DHW heating ( $\eta_{wh}$ ), warmer climates                                                        |        | -                                                                                                                                                        |
| Special measures                                                                                                       |        | Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: Siehe Installation- und Montageanweisung |