

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

|   |       | WPE-I 05 HW 400 Plus |
|---|-------|----------------------|
|   |       | 205834               |
| 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    | 6                    |
| Rated heating output in moderate climates for low temperature applications (Prated)   | kW    | 6                    |
| Annual energy consumption in moderate climates for average temperature applications (QHE)                                     | kWh/a | 3672                 |
| Annual energy consumption in moderate climates for low temperature applications (QHE)   | kWh/a | 2630                 |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\ensuremath{\Pi}\xspaces)$      | %     | 135                  |
| Seasonal room heating efficiency in moderate climates for low temperature applications ( $\ensuremath{\Pi}\xspace{s}\xspace)$ | %     | 181                  |
| Energy efficiency for DHW heating (ηwh) under moderate climatic conditions  | %     | 122                  |
| Sound power level internal  | dB(A) | 42                   |
| Rated heating output in colder climates for average temperature applications (Prated)   | kW    | 6                    |
| Rated heating output in colder climates for low temperature applications (Prated)   | kW    | 6                    |
| Rated heating output in warmer climates for average temperature applications (Prated)   | kW    | 6                    |
| Rated heating output in warmer climates for low temperature applications (Prated)   | kW    | 7                    |
| Annual energy consumption in colder climates for average temperature applications (QHE)                                       | kWh/a | 4104                 |
| Annual energy consumption in colder climates for low temperature applications (QHE)   | kWh/a | 3170                 |
| Annual energy consumption in warmer climates for average temperature applications (QHE)                                       | kWh/a | 2237                 |
| Annual energy consumption in warmer climates for low temperature applications (QHE)   | kWh/a | 1825                 |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta$ s)                          | %     | 138                  |
| Seasonal room heating efficiency in colder climates for low temperature applications ( $\eta s)$                              | %     | 187                  |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\eta$ s)                          | %     | 135                  |
| Seasonal room heating efficiency in warmer climates for low temperature applications ( $\ensuremath{\Pi}$ s)                  | %     | 183                  |



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**STIEBEL ELTRON** 

WPE-I 05 HW 400 Plus



Product datasheet: Composite system consisting of room heater and temperature controller to regulation (EU) no. 811/2013 / (S.I. 2019 No. 539 / Schedule 2)

|   | WPE-I 05 HW 400 Plus |
|---|----------------------|
|   | 205834               |
|   | STIEBEL ELTRON       |
| % | 135                  |
|   | III                  |
| % | 1                    |
| % | 136                  |
| % | 139                  |
| % | 137                  |
|   | A++                  |
|   | A++                  |
|   | A                    |
|   | XL                   |
|   | %<br>%<br>%          |

## Required details about room heater and combi heater with heat pump to regulation (EU) no. 813/2013 & 811/2013

|  |          | WPE-I 05 HW 400 Plus |
|--|----------|----------------------|
|  |          | 205834               |
| Manufacturer   |          | STIEBEL ELTRON       |
| Heat source  |          | Brine                |
| Low temperature heat pump  |          |                      |
| With booster neater  |          | X                    |
| Deted besting output in colder climates for overage temperature  |          | X                    |
| applications (Prated)  | kW       | 6                    |
| Rated heating output in moderate climates for average temperature applications (Prated)                | kW       | 6                    |
| Rated heating output in warmer climates for average temperature applications (Prated)                  | kW       | 6                    |
| Tj = -7 °C heating output, partial load range in colder climates (Pdh)                                 | kW       | 5.2                  |
| Tj = -7 °C heating output, partial load range under moderate climatic conditions (Pdh)                 | kW       | 5.1                  |
| Tj = 2 °C heating output, partial load range in colder climates (Pdh)                                  | kW       | 5.3                  |
| Tj = 2 °C heating output, partial load range under moderate climatic conditions (Pdh)                  | kW       | 5.2                  |
| Tj = 2 °C heating output, partial load range in warmer climates (Pdh)                                  | kW       | 5.0                  |
| Tj = 7 °C heating output, partial load range in colder climates (Pdh)                                  | kW       | 5.4                  |
| Tj = 7 °C heating output, partial load range under moderate climatic conditions (Pdh)                  | kW       | 5.3                  |
| Tj = 7 °C heating output, partial load range in warmer climates (Pdh)                                  | kW       | 5.2                  |
| Tj = 12 °C heating output, partial load range in colder climates (Pdh)                                 | kW       | 5.4                  |
| $T_j = 12 \text{ °C}$ heating output, partial load range under moderate climatic conditions (Pdh)      | kW       | 5.4                  |
| Tj = 12 °C heating output, partial load range in warmer climates (Pdh)                                 | kW       | 5.3                  |
| Tj = dual mode temperature in colder climates (Pdh)  | kW       | 5.1                  |
| Tj = dual mode temperature under moderate climatic conditions (Pdh)                                    | kW       | 5.1                  |
| Tj = dual mode temperature in warmer climates (Pdh)  | kW       | 5.1                  |
| Tj = operating temperature limit in colder climates (Pdh)  | kW       | 5.0                  |
| Tj = operating temperature limit under moderate climatic conditions (Pdh)                              | kW       | 5.0                  |
| Tj = operating temperature limit in warmer climates (Pdh)  | kW       | 5.0                  |
| Dual mode temperature in colder climates (Tbiv)  | <u> </u> | -16                  |
| Dual mode temperature in moderate climates (Tbiv)  | <u> </u> | -5                   |
| Dual mode temperature in warmer climates (Tbiv)  | <u> </u> | 4                    |
| Seasonal room heating efficiency in colder climates for average temperature applications ( $\eta$ s)   | %        | 138                  |
| Seasonal room heating efficiency in moderate climates for average temperature applications ( $\eta$ s) | %        | 135                  |
| Seasonal room heating efficiency in warmer climates for average temperature applications ( $\Pi$ s)    | %        | 135                  |
| Tj = -7 °C COP, partial load range in colder climates (COPd)   |          | 3.47                 |
| Tj = -7 °C COP, partial load range under moderate climatic conditions (COPd)                           |          | 3.07                 |
| Tj = 2 °C COP, partial load range in colder climates (COPd)  |          | 3.86                 |
| Tj = 2  °C COP, partial load range under moderate climatic conditions (COPd)                           |          | 3.60                 |
| Tj = 2 °C COP, partial load range in warmer climates (COPd)  |          | 2.77                 |
| Tj = 7 °C COP, partial load range in colder climates (COPd)  |          | 4.17                 |
| $Tj = 7 \ ^{\circ}C \ COP$ , partial load range under moderate climatic conditions (COPd)              |          | 3.94                 |
| Tj = 7 °C COP, partial load range in warmer climates (COPd)  |          | 3.34                 |
| $Tj = 12 \circ C COP$ , partial load range in colder climates (COPd)                                   |          | 4.40                 |
| Tj = 12 °C COP, partial load range under moderate climatic conditions (COPd)                           |          | 4,27                 |
| Tj = 12 °C COP, partial load range in warmer climates (COPd)   |          | 4.04                 |
| Tj = dual mode temperature in colder climates (COPd)   |          | 3.21                 |
| Tj = dual mode temperature under moderate climatic conditions (COPd)                                   |          | 3.21                 |
| Tj = dual mode temperature in warmer climates (COPd)   |          | 3.11                 |

| Tj = operating temperature limit in colder climates (COPd)                                |       | 2.77     |
|---|-------|----------|
| Tj = operating temperature limit under moderate climatic conditions<br>(COPd)             |       | 2.77     |
| Tj = operating temperature limit in warmer climates (COPd)                                |       | 2.77     |
| Heating water operating temperature limit (WTOL)  | °C    | 65       |
| Power consumption, OFF state (Poff)   | W     | 4        |
| Power consumption, thermostat OFF state (PTO)   | W     | 7        |
| Standby power consumption (PSB)   | W     | 7        |
| Power consumption, operating state, with crankcase heating (PCK)                          | W     | 0        |
| Booster heater heating output in colder climates (Psup)                                   | kW    | 1.1      |
| Booster heater heating output in moderate climate (Psup)                                  | kW    | 1.3      |
| Booster heater heating output in warmer climates (Psup)                                   | kW    | 1.0      |
| Type of energy supply, booster heater   |       | electric |
| Sound power level internal  | dB(A) | 42       |
| Annual energy consumption in colder climates for average temperature applications (QHE)   | kWh/a | 4104     |
| Annual energy consumption in moderate climates for average temperature applications (QHE) | kWh/a | 3672     |
| Annual energy consumption in warmer climates for average temperature applications (QHE)   | kWh/a | 2237     |
| Flow rate, heat source side   | m³/h  | 0,9      |
| Load profile  |       | XL       |
| Daily power consumption in colder climates (QELEC)  | kWh   | 6.396    |
| Daily power consumption (Qelec)   | kWh   | 6.396    |
| Daily power consumption in warmer climates (QELEC)  | kWh   | 6.396    |
| Energy efficiency for DHW heating (Ŋwh) under moderate climatic conditions                | %     | 122      |