

This information was generated by the HP KEYMARK database on 18 Mar 2022

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|                     |                                                       |          |            |
|---------------------|-------------------------------------------------------|----------|------------|
| Summary of          | WPE-I 44 H 400 Premium                                | Reg. No. | 011-1W0333 |
| Certificate Holder  |                                                       |          |            |
| Name                | STIEBEL ELTRON GmbH & Co KG                           |          |            |
| Address             | Dr. Stiebel Straße 33                                 | Zip      | 37603      |
| City                | Holzminden                                            | Country  | Germany    |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |          |            |
| Subtype title       | WPE-I 44 H 400 Premium                                |          |            |
| Heat Pump Type      | Brine/Water                                           |          |            |
| Refrigerant         | R410A                                                 |          |            |
| Mass of Refrigerant | 4.4 kg                                                |          |            |
| Certification Date  | 05.10.2020                                            |          |            |
| Testing basis       | HP KEYMARK certification scheme rules rev. 7          |          |            |

## Model: WPE-I 44 H 400 Premium

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | WPE-I 44 H 400 Premium          |
| Application                         | Heating (medium temp)           |
| Units                               | Indoor                          |
| Climate Zone                        | Colder Climate + Warmer Climate |
| Reversibility                       | Yes                             |
| Cooling mode application (optional) | n/a                             |

| General Data |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 26.71 kW        | 22.39 kW           |
| El input    | 5.81 kW         | 7.52 kW            |
| COP         | 4.60            | 2.98               |

| EN 14511-4                                 |        |
|--------------------------------------------|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | failed |
| Starting and operating test                | passed |

### Average Climate

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### EN 12102-1

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 48 dB(A)        | 50 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 218 %           | 168 %              |
| Prated         | 38.06 kW        | 35.62 kW           |
| SCOP           | 5.65            | 4.39               |
| Tbiv           | -10 °C          | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 33.67 kW        | 31.51 kW           |
| COP Tj = -7°C  | 4.56            | 3.21               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 20.49 kW        | 19.18 kW           |
| COP Tj = +2°C  | 5.68            | 4.39               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 13.18 kW        | 12.33 kW           |
| COP Tj = +7°C  | 6.28            | 5.16               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |
| Pdh Tj = 12°C  | 12.70 kW        | 12.57 kW           |

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|                                                     |           |           |
|-----------------------------------------------------|-----------|-----------|
| COP Tj = 12°C                                       | 6.31      | 5.34      |
| Cdh Tj = +12 °C                                     | 0.90      | 0.90      |
| Pdh Tj = Tbiv                                       | 38.06 kW  | 35.62 kW  |
| COP Tj = Tbiv                                       | 4.29      | 2.95      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 38.06 kW  | 35.62 kW  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.29      | 2.95      |
| WTOL                                                | 65 °C     | 65 °C     |
| Poff                                                | 7 W       | 7 W       |
| PTO                                                 | 7 W       | 7 W       |
| PSB                                                 | 7 W       | 7 W       |
| PCK                                                 | 0 W       | 0 W       |
| Supplementary Heater: Type of energy input          | n/a       | n/a       |
| Supplementary Heater: PSUP                          | 0.00 kW   | 0.00 kW   |
| Annual energy consumption Qhe                       | 13917 kWh | 16768 kWh |

## Warmer Climate

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 220 %                  | 167 %                     |
| Prated          | 38.06 kW               | 35.62 kW                  |
| SCOP            | 5.70                   | 4.38                      |

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|                                                     |          |          |
|-----------------------------------------------------|----------|----------|
| Tbiv                                                | 2 °C     | 2 °C     |
| TOL                                                 | 2 °C     | 2 °C     |
| Pdh Tj = +2°C                                       | 38.06 kW | 35.62 kW |
| COP Tj = +2°C                                       | 4.29     | 2.95     |
| Cdh Tj = +2 °C                                      | 0.90     | 0.90     |
| Pdh Tj = +7°C                                       | 24.47 kW | 22.90 kW |
| COP Tj = +7°C                                       | 5.35     | 3.89     |
| Cdh Tj = +7 °C                                      | 0.90     | 0.90     |
| Pdh Tj = 12°C                                       | 12.71 kW | 12.48 kW |
| COP Tj = 12°C                                       | 6.31     | 5.17     |
| Cdh Tj = +12 °C                                     | 0.90     | 0.90     |
| Pdh Tj = Tbiv                                       | 38.06 kW | 35.62 kW |
| COP Tj = Tbiv                                       | 4.29     | 2.95     |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 38.06 kW | 35.62 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.29     | 2.95     |
| WTOL                                                | 65 °C    | 65 °C    |
| Poff                                                | 7 W      | 7 W      |
| PTO                                                 | 7 W      | 7 W      |
| PSB                                                 | 7 W      | 7 W      |
| PCK                                                 | 0 W      | 0 W      |
| Supplementary Heater: Type of energy input          | n/a      | n/a      |

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|                                           |          |           |
|-------------------------------------------|----------|-----------|
| Supplementary Heater: PSUP                | 0.00 kW  | 0.00 kW   |
| Annual energy consumption Q <sub>he</sub> | 8920 kWh | 10862 kWh |

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 48 dB(A)               | 50 dB(A)                  |

## Colder Climate

| <b>EN 14825</b>                        |                        |                           |
|----------------------------------------|------------------------|---------------------------|
|                                        | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                               | 226 %                  | 174 %                     |
| Prated                                 | 38.06 kW               | 35.62 kW                  |
| SCOP                                   | 5.86                   | 4.55                      |
| T <sub>biv</sub>                       | -22 °C                 | -22 °C                    |
| TOL                                    | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C  | 23.04 kW               | 21.56 kW                  |
| COP T <sub>j</sub> = -7°C              | 5.57                   | 4.12                      |
| C <sub>dh</sub> T <sub>j</sub> = -7 °C | 0.90                   | 0.90                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C  | 14.02 kW               | 13.12 kW                  |
| COP T <sub>j</sub> = +2°C              | 6.27                   | 5.02                      |
| C <sub>dh</sub> T <sub>j</sub> = +2 °C | 0.90                   | 0.90                      |

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|                                                     |           |           |
|-----------------------------------------------------|-----------|-----------|
| Pdh Tj = +7°C                                       | 12.71 kW  | 12.56 kW  |
| COP Tj = +7°C                                       | 6.35      | 5.32      |
| Cdh Tj = +7 °C                                      | 0.90      | 0.90      |
| Pdh Tj = 12°C                                       | 12.70 kW  | 12.65 kW  |
| COP Tj = 12°C                                       | 6.19      | 5.49      |
| Cdh Tj = +12 °C                                     | 0.90      | 0.90      |
| Pdh Tj = Tbiv                                       | 38.06 kW  | 35.62 kW  |
| COP Tj = Tbiv                                       | 4.29      | 2.95      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 38.06 kW  | 35.62 kW  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.29      | 2.95      |
| WTOL                                                | 65 °C     | 65 °C     |
| Poff                                                | 7 W       | 7 W       |
| PTO                                                 | 7 W       | 7 W       |
| PSB                                                 | 7 W       | 7 W       |
| PCK                                                 | 0 W       | 0 W       |
| Supplementary Heater: Type of energy input          | n/a       | n/a       |
| Supplementary Heater: PSUP                          | 0.00 kW   | 0.00 kW   |
| Annual energy consumption Qhe                       | 16014 kWh | 19290 kWh |
| Pdh Tj = -15°C (if TOL<-20°C)                       | 38.06     | 35.62     |
| COP Tj = -15°C (if TOL<-20°C)                       | 4.29      | 2.95      |
| Cdh Tj = -15 °C                                     | 0.90      | 0.90      |

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| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 48 dB(A)               | 50 dB(A)                  |