

| 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

| 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  |  |
| СОР                                | 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**

| 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           | 0.90            | 0.90               |
| Pdh Tj = +2°C | 20.49 kW        | 19.18 kW           |
| COP Tj = +2°C | 5.68            | 4.39               |
| Cdh           | 0.90            | 0.90               |
| Pdh Tj = +7°C | 13.18 kW        | 12.33 kW           |
| COP Tj = +7°C | 6.28            | 5.16               |
| Cdh           | 0.90            | 0.90               |
| Pdh Tj = 12°C | 12.70 kW        | 12.57 kW           |
| COP Tj = 12°C | 6.31            | 5.34               |
| Cdh           | 0.90            | 0.90               |
| Pdh Tj = Tbiv | 38.06 kW        | 35.62 kW           |
| COP Tj = Tbiv | 4.29            | 2.95               |

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| 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       |
| РТО   | 7 W       | 7 W       |
| PSB   | 7 W       | 7 W       |
| PCK   | o w       | o w       |
| Supplementary Heater: Type of energy input          | No        | No        |
| Supplementary Heater: PSUP                          | 0.00 kW   | 0.00 kW   |
| Annual energy consumption Qhe                       | 13917 kWh | 16768 kWh |

## Warmer Climate

| EN 14825      |                 |                      |  |
|---------------|-----------------|----------------------|--|
|               | Low temperature | e Medium temperature |  |
| $\eta_{s}$    | 220 %           | 167 %                |  |
| Prated        | 38.06 kW        | 35.62 kW             |  |
| SCOP          | 5.70            | 4.38                 |  |
| 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                 |  |

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Page 5 of 8 This information was generated by the HP KEYMARK database on 15 Mar 2021

|   |          | ik database on 15 Mai 202 |
|---|----------|---------------------------|
| Cdh   | 0.90     | 0.90                      |
| Pdh Tj = +7°C                                       | 24.47 kW | 22.90 kW                  |
| $COP Tj = +7^{\circ}C$                              | 5.35     | 3.89                      |
| Cdh   | 0.90     | 0.90                      |
| Pdh Tj = 12°C                                       | 12.71 kW | 12.48 kW                  |
| COP Tj = 12°C                                       | 6.31     | 5.17                      |
| Cdh   | 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                       |
| РТО   | 7 W      | 7 W                       |
| PSB   | 7 W      | 7 W                       |
| PCK   | 0 W      | 0 W                       |
| Supplementary Heater: Type of energy input          | No       | No                        |
| Supplementary Heater: PSUP                          | 0.00 kW  | 0.00 kW                   |
| Annual energy consumption Qhe                       | 8920 kWh | 10862 kWh                 |



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

### Colder Climate

| EN 14825                |                 |                    |  |
|-------------------------|-----------------|--------------------|--|
|                         | Low temperature | Medium temperature |  |
| $\eta_{s}$              | 226 %           | 174 %              |  |
| Prated                  | 38.06 kW        | 35.62 kW           |  |
| SCOP                    | 5.86            | 4.55               |  |
| Tbiv                    | -22 °C          | -22 °C             |  |
| TOL                     | -22 °C          | -22 °C             |  |
| Pdh Tj = -7°C           | 23.04 kW        | 21.56 kW           |  |
| COP Tj = $-7^{\circ}$ C | 5.57            | 4.12               |  |
| Cdh                     | 0.90            | 0.90               |  |
| Pdh Tj = $+2$ °C        | 14.02 kW        | 13.12 kW           |  |
| COP Tj = +2°C           | 6.27            | 5.02               |  |
| Cdh                     | 0.90            | 0.90               |  |
| Pdh Tj = +7°C           | 12.71 kW        | 12.56 kW           |  |
| COP Tj = +7°C           | 6.35            | 5.32               |  |
| Cdh                     | 0.90            | 0.90               |  |
| Can                     | 0.90            | 0.90               |  |

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 $$\operatorname{\textit{Page}}\ 7$$  of 8 This information was generated by the HP KEYMARK database on 15 Mar 2021

| Pdh Tj = 12°C                                       | 12.70 kW  | 12.65 kW  |
|---|-----------|-----------|
| COP Tj = 12°C                                       | 6.19      | 5.49      |
| Cdh   | 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       |
| РТО   | 7 W       | 7 W       |
| PSB   | 7 W       | 7 W       |
| PCK   | 0 W       | 0 W       |
| Supplementary Heater: Type of energy input          | No        | No        |
| 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   | 0.90      | 0.90      |





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