

Subtype TERRA 8 HPLB

|                     |   |
|---------------------|---|
| Certificate Holder  | Ochsner Wärmepumpen GmbH                              |
| Address             | Krackowizerstraße 4                                   |
| ZIP                 | 4020  |
| City                | Linz  |
| Country             | AT  |
| Certification Body  | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title       | TERRA 8 HPLB  |
| Registration number | 011-1W0417  |
| Heat Pump Type      | Brine/Water   |
| Refrigerant         | R410A   |
| Mass of Refrigerant | 1.9 kg  |
| Certification Date  | 30.09.2020  |
| Testing basis       | HP KEYMARK certification scheme rules rev. 7          |

**Model TERRA 8 HPLB, low temperature, all climates**

|                                     |   |
|-------------------------------------|---|
| Model name                          | TERRA 8 HPLB, low temperature, all climates |
| Application                         | Heating (low temp)                          |
| Units                               | Indoor                                      |
| Climate zone (for heating)          | Warmer Climate, Colder Climate              |
| Cooling mode application (optional) | n/a   |
| Any additional heat sources         | n/a   |
| Phase-out Date                      | 06.08.2027                                  |

**General data**

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | No          |

**Brine/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

|                               |        |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test                  | passed |
| Starting and operating test   | passed |

**EN 14511-2 | Heating**

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 7.60 kW         |                    |
| El input    | 1.60 kW         |                    |
| COP         | 4.76            |                    |

**EN 12102-1 | Average Climate**

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

**EN 14825 | Average Climate**

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 204 %           |                    |
| Prated         | 8.00 kW         |                    |
| SCOP           | 5.30            |                    |
| Tbiv           | -10 °C          |                    |
| TOL            | -10 °C          |                    |
| Pdh Tj = -7°C  | 7.60 kW         |                    |
| COP Tj = -7°C  | 4.82            |                    |
| Cdh Tj = -7 °C |                 |                    |
| Pdh Tj = +2°C  | 7.70 kW         |                    |
| COP Tj = +2°C  | 5.22            |                    |
| Cdh Tj = +2 °C |                 |                    |
| Pdh Tj = +7°C  | 7.80 kW         |                    |

|   |             |
|---|-------------|
| COP Tj = +7°C                                       | 5.62        |
| Cdh Tj = +7 °C                                      |             |
| Pdh Tj = 12°C                                       | 7.80 kW     |
| COP Tj = 12°C                                       | 6.08        |
| Cdh Tj = +12 °C                                     |             |
| Pdh Tj = Tbiv                                       | 7.60 kW     |
| COP Tj = Tbiv                                       | 4.76        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.60 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.76        |
| WTOL  | 60 °C       |
| Poff  | 0 W         |
| PTO   | 55 W        |
| PSB   | 10 W        |
| PCK   | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     |
| Annual energy consumption Qhe                       | 2964 kWh    |

**EN 12102-1 | Colder Climate**

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

**EN 14825 | Colder Climate**

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| ηs              | 212 %           |                    |
| Prated          | 9.00 kW         |                    |
| SCOP            | 5.24            |                    |
| Tbiv            | -15 °C          |                    |
| TOL             | -22 °C          |                    |
| Pdh Tj = -7°C   | 7.70 kW         |                    |
| COP Tj = -7°C   | 5.42            |                    |
| Cdh Tj = -7 °C  |                 |                    |
| Pdh Tj = +2°C   | 7.80 kW         |                    |
| COP Tj = +2°C   | 5.74            |                    |
| Cdh Tj = +2 °C  |                 |                    |
| Pdh Tj = +7°C   | 7.80 kW         |                    |
| COP Tj = +7°C   | 6.01            |                    |
| Cdh Tj = +7 °C  |                 |                    |
| Pdh Tj = 12°C   | 7.80 kW         |                    |
| COP Tj = 12°C   | 6.05            |                    |
| Cdh Tj = +12 °C |                 |                    |
| Pdh Tj = Tbiv   | 7.70 kW         |                    |
| COP Tj = Tbiv   | 5.29            |                    |

|   |             |
|---|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.70 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.29        |
| WTOL  | 60 °C       |
| Poff  | 0 W         |
| PTO   | 55 W        |
| PSB   | 10 W        |
| PCK   | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.84 kW     |
| Annual energy consumption Qhe                       | 4238 kWh    |

**EN 12102-1 | Warmer Climate**

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

**EN 14825 | Warmer Climate**

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs  | 204 %           |                    |
| Prated  | 8.00 kW         |                    |
| SCOP  | 5.01            |                    |
| Tbiv  | 2 °C            |                    |
| TOL   | 2 °C            |                    |
| Pdh Tj = +2°C                                       | 7.60 kW         |                    |
| COP Tj = +2°C                                       | 4.76            |                    |
| Cdh Tj = +2 °C                                      |                 |                    |
| Pdh Tj = +7°C                                       | 7.70 kW         |                    |
| COP Tj = +7°C                                       | 5.13            |                    |
| Cdh Tj = +7 °C                                      |                 |                    |
| Pdh Tj = 12°C                                       | 7.80 kW         |                    |
| COP Tj = 12°C                                       | 5.77            |                    |
| Cdh Tj = +12 °C                                     |                 |                    |
| Pdh Tj = Tbiv                                       | 7.60 kW         |                    |
| COP Tj = Tbiv                                       | 4.76            |                    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.60 kW         |                    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.76            |                    |
| WTOL  | 60 °C           |                    |
| Poff  | 0 W             |                    |
| PTO   | 55 W            |                    |
| PSB   | 10 W            |                    |
| PCK   | 0 W             |                    |
| Supplementary Heater: Type of energy input          | Electricity     |                    |

|                               |          |
|-------------------------------|----------|
| Supplementary Heater: PSUP    | 0.00 kW  |
| Annual energy consumption Qhe | 1918 kWh |

**Model TERRA 8 HPLB, average climate**

|                                     |                               |
|-------------------------------------|-------------------------------|
| Model name                          | TERRA 8 HPLB, average climate |
| Application                         | Heating (medium temp)         |
| Units                               | Indoor                        |
| Climate zone (for heating)          | n/a                           |
| Cooling mode application (optional) | n/a                           |
| Any additional heat sources         | n/a                           |
| Phase-out Date                      | 06.08.2027                    |

**General data**

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | No          |

**Brine/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

|                               |        |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test                  | passed |
| Starting and operating test   | passed |

**EN 14511-2 | Heating**

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 7.60 kW         | 6.90 kW            |
| El input    | 1.60 kW         | 2.53 kW            |
| COP         | 4.76            | 2.73               |

**EN 12102-1 | Average Climate**

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

**EN 14825 | Average Climate**

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 204 %           | 131 %              |
| Prated         | 8.00 kW         | 7.00 kW            |
| SCOP           | 5.30            | 3.48               |
| Tbiv           | -10 °C          | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 7.60 kW         | 7.00 kW            |
| COP Tj = -7°C  | 4.82            | 2.86               |
| Cdh Tj = -7 °C |                 |                    |
| Pdh Tj = +2°C  | 7.70 kW         | 7.20 kW            |
| COP Tj = +2°C  | 5.22            | 3.41               |
| Cdh Tj = +2 °C |                 |                    |
| Pdh Tj = +7°C  | 7.80 kW         | 7.40 kW            |

|   |             |             |
|---|-------------|-------------|
| COP Tj = +7°C                                       | 5.62        | 3.85        |
| Cdh Tj = +7 °C                                      |             |             |
| Pdh Tj = 12°C                                       | 7.80 kW     | 7.50 kW     |
| COP Tj = 12°C                                       | 6.08        | 4.39        |
| Cdh Tj = +12 °C                                     |             |             |
| Pdh Tj = Tbiv                                       | 7.60 kW     | 6.90 kW     |
| COP Tj = Tbiv                                       | 4.76        | 2.73        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.60 kW     | 6.90 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.76        | 2.73        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 0 W         | 0 W         |
| PTO   | 55 W        | 55 W        |
| PSB   | 10 W        | 10 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2964 kWh    | 4113 kWh    |