

Subtype TERRA 18 HPLA

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|---------------------|---|
| 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 18 HPLA |
| Registration number | 011-1W0422 |
| Heat Pump Type | Brine/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 2.35 kg |
| Certification Date | 30.09.2020 |
| Testing basis | HP KEYMARK certification scheme rules rev. 7 |

Model TERRA 18 HPLA, average climate

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|-------------------------------------|--------------------------------|
| Model name | TERRA 18 HPLA, 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 | 3x400V 50Hz |
| Off-peak product | No |

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

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

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 17.02 kW | 15.60 kW |
| El input | 3.75 kW | 4.45 kW |
| COP | 4.54 | 2.89 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 53 dB(A) | 53 dB(A) |
| Sound power level outdoor | 0 dB(A) | 0 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 189 % | 134 % |
| Prated | 17.00 kW | 16.00 kW |
| SCOP | 4.93 | 3.54 |
| Tbiv | -10 °C | -10 °C |
| TOL | -20 °C | -10 °C |
| Pdh Tj = -7°C | 17.00 kW | 15.90 kW |
| COP Tj = -7°C | 4.59 | 3.01 |
| Pdh Tj = +2°C | 17.20 kW | 16.30 kW |
| COP Tj = +2°C | 4.88 | 3.49 |
| Pdh Tj = +7°C | 17.30 kW | 16.60 kW |
| COP Tj = +7°C | 5.16 | 3.85 |

| | | |
|---|---------------------|---------------------|
| Pdh Tj = 12°C | 17.40 kW | 16.90 kW |
| COP Tj = 12°C | 5.48 | 4.27 |
| Pdh Tj = Tbiv | 17.00 kW | 15.80 kW |
| COP Tj = Tbiv | 4.54 | 2.89 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 17.00 kW | 15.80 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.54 | 2.89 |
| Rated airflow rate | 0 m ³ /h | 0 m ³ /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | 0.90 |
| WTOL | 65 °C | 65 °C |
| Poff | 0 W | 0 W |
| PTO | 139 W | 139 W |
| PSB | 9 W | 9 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 | 7128 kWh | 9198 kWh |

Model TERRA 18 HPLA, low temperature, all climates

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|-------------------------------------|--|
| Model name | TERRA 18 HPLA, 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 | 3x400V 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

Starting and operating test passed

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 17.02 kW | |
| El input | 3.75 kW | |
| COP | 4.54 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 53 dB(A) | |
| Sound power level outdoor | 0 dB(A) | |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 189 % | |
| Prated | 17.00 kW | |
| SCOP | 4.93 | |
| Tbiv | -10 °C | |
| TOL | -20 °C | |
| Pdh Tj = -7°C | 17.00 kW | |
| COP Tj = -7°C | 4.59 | |
| Pdh Tj = +2°C | 17.20 kW | |
| COP Tj = +2°C | 4.88 | |
| Pdh Tj = +7°C | 17.30 kW | |
| COP Tj = +7°C | 5.16 | |

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|---|-------------|
| Pdh Tj = 12°C | 17.40 kW |
| COP Tj = 12°C | 5.48 |
| Pdh Tj = Tbiv | 17.00 kW |
| COP Tj = Tbiv | 4.54 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 17.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.54 |
| Rated airflow rate | 0 m³/h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 |
| WTOL | 65 °C |
| Poff | 0 W |
| PTO | 139 W |
| PSB | 9 W |
| PCK | 0 W |
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 0.00 kW |
| Annual energy consumption Qhe | 7128 kWh |

EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 53 dB(A) | |
| Sound power level outdoor | 0 dB(A) | |

EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| ηs | 194 % | |
| Prated | 21.00 kW | |
| SCOP | 5.06 | |
| Tbiv | -15 °C | |
| TOL | -22 °C | |
| Pdh Tj = -7°C | 17.30 kW | |
| COP Tj = -7°C | 5.02 | |
| Pdh Tj = +2°C | 17.30 kW | |
| COP Tj = +2°C | 5.24 | |
| Pdh Tj = +7°C | 17.40 kW | |
| COP Tj = +7°C | 5.43 | |
| Pdh Tj = 12°C | 17.40 kW | |
| COP Tj = 12°C | 5.46 | |
| Pdh Tj = Tbiv | 17.20 kW | |
| COP Tj = Tbiv | 4.92 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 17.20 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.92 | |

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|---|---------------------|
| Rated airflow rate | 0 m ³ /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 |
| WTOL | 65 °C |
| Poff | 0 W |
| PTO | 139 W |
| PSB | 9 W |
| PCK | 0 W |
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 4.07 kW |
| Annual energy consumption Qhe | 10274 kWh |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 53 dB(A) | |
| Sound power level outdoor | 0 dB(A) | |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---------------------|--------------------|
| ηs | 188 % | |
| Prated | 17.00 kW | |
| SCOP | 4.91 | |
| Tbiv | 2 °C | |
| TOL | 2 °C | |
| Pdh Tj = -7°C | 0.00 kW | |
| COP Tj = -7°C | 0.00 | |
| Pdh Tj = +2°C | 17.00 kW | |
| COP Tj = +2°C | 4.54 | |
| Pdh Tj = +7°C | 17.20 kW | |
| COP Tj = +7°C | 4.81 | |
| Pdh Tj = 12°C | 17.40 kW | |
| COP Tj = 12°C | 5.26 | |
| Pdh Tj = Tbiv | 17.00 kW | |
| COP Tj = Tbiv | 4.54 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 17.00 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.54 | |
| Rated airflow rate | 0 m ³ /h | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.90 | |
| WTOL | 65 °C | |
| Poff | 0 W | |
| PTO | 139 W | |
| PSB | 9 W | |
| PCK | 0 W | |

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|--|-------------|
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 0.00 kW |
| Annual energy consumption Q _{he} | 4635 kWh |