

## Subtype TERRA 11 HPLA

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 11 HPLA
Registration number	011-1W0418
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	2.03 kg
Certification Date	30.09.2020
Testing basis	HP KEYMARK certification scheme rules rev. 7

## Model TERRA 11 HPLA

Model name	TERRA 11 HPLA
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	216 %	137 %
Prated	10.00 kW	9.00 kW
SCOP	5.61	3.63
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	9.20 kW	9.20 kW
COP Tj = -7°C	2.97	2.97
Pdh Tj = +2°C	9.60 kW	9.60 kW
COP Tj = +2°C	3.56	3.56
Pdh Tj = +7°C	9.90 kW	9.90 kW
COP Tj = +7°C	4.03	4.03
Pdh Tj = 12°C	10.10 kW	10.10 kW
COP Tj = 12°C	4.60	4.60
Pdh Tj = Tbiv	10.30 kW	9.10 kW
COP Tj = Tbiv	5.03	2.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.10 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	2.83

Rated airflow rate	0 m <sup>3</sup> /h	0 m <sup>3</sup> /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	84 W	84 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	3799 kWh	5167 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	224 %	224 %
Prated	13.00 kW	13.00 kW
SCOP	5.81	5.80
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.50 kW	10.50 kW
COP Tj = -7°C	5.75	5.74
Pdh Tj = +2°C	10.60 kW	10.60 kW
COP Tj = +2°C	6.07	6.07
Pdh Tj = +7°C	10.70 kW	10.70 kW
COP Tj = +7°C	6.36	6.36
Pdh Tj = 12°C	10.70 kW	10.70 kW
COP Tj = 12°C	6.40	6.40
Pdh Tj = Tbiv	10.50 kW	10.50 kW
COP Tj = Tbiv	5.60	5.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.60	5.03
Rated airflow rate	0 m <sup>3</sup> /h	0 m <sup>3</sup> /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	84 W	84 W
PSB	9 W	9 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.55 kW	2.55 kW
Annual energy consumption Q <sub>he</sub>	5457 kWh	5457 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	215 %	136 %
Prated	10.00 kW	9.00 kW
SCOP	5.59	3.60
T <sub>biv</sub>	2 °C	2 °C
TOL	0 °C	0 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	0.00 kW	0.00 kW
COP T <sub>j</sub> = -7°C	0.00	0.00
P <sub>dh</sub> T <sub>j</sub> = +2°C	10.30 kW	9.10 kW
COP T <sub>j</sub> = +2°C	5.03	2.83
P <sub>dh</sub> T <sub>j</sub> = +7°C	10.40 kW	9.50 kW
COP T <sub>j</sub> = +7°C	5.43	3.28
P <sub>dh</sub> T <sub>j</sub> = 12°C	10.60 kW	10.00 kW
COP T <sub>j</sub> = 12°C	6.10	4.21
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	10.30 kW	9.10 kW
COP T <sub>j</sub> = T <sub>biv</sub>	5.03	2.83
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.30 kW	91.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.03	2.83
Rated airflow rate	0 m <sup>3</sup> /h	0 m <sup>3</sup> /h
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.90	0.90
WTOL	65 °C	65 °C
P <sub>off</sub>	0 W	0 W
PTO	84 W	84 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 Q <sub>he</sub>	2466 kWh	3367 kWh