

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	TERRA 11 HPLB	Reg. No.	011-1W0419
Certificate Holder			
Name	Ochsner Wärmepumpen GmbH		
Address	Krackowizerstraße 4	Zip	4020
City	Linz	Country	Austria
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut		
Subtype title	TERRA 11 HPLB		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.13 kg		
Certification Date	30.09.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

## Model: TERRA 11 HPLB, average

### General Data

Power supply	1x230V 50Hz
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### Heating

#### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### EN 14511-2

	Low temperature	Medium temperature
Heat output	10.30 kW	9.40 kW
El input	2.17 kW	3.24 kW
COP	4.75	2.90
Indoor water flow rate	2.20 m <sup>3</sup> /h	2.20 m <sup>3</sup> /h

### Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)
Sound power level outdoor	0 dB(A)	0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	200 %	136 %
Prated	10.00 kW	9.00 kW
SCOP	5.21	3.61
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.30 kW	9.50 kW
COP Tj = -7°C	4.81	3.03
Pdh Tj = +2°C	10.40 kW	9.80 kW
COP Tj = +2°C	5.14	3.55
Pdh Tj = +7°C	10.50 kW	10.00 kW
COP Tj = +7°C	5.47	3.95
Pdh Tj = 12°C	10.60 kW	10.20 kW
COP Tj = 12°C	5.84	4.43
Pdh Tj = Tbiv	10.30 kW	9.40 kW

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COP Tj = Tbiv	4.75	2.90
Pdh Tj = TOL	10.30 kW	9.40 kW
COP Tj = TOL	4.75	2.90
Rated airflow rate	0 m³/h	0 m³/h
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	85 W	85 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	4091 kWh	5358 kWh

Warmer Climate

Colder Climate

## Model: TERRA 11 HPLB, all climates, low temperature

### General Data

Power supply	1x230V 50Hz
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### Heating

#### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### EN 14511-2

	<b>Low temperature</b>
Heat output	10.31 kW
El input	2.17 kW
COP	4.75
Indoor water flow rate	2.20 m <sup>3</sup> /h

### Average Climate

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### EN 12102-1

	Low temperature
Sound power level indoor	50 dB(A)
Sound power level outdoor	0 dB(A)

### EN 14825

	Low temperature
$\eta_s$	200 %
Prated	10.00 kW
SCOP	5.21
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	10.30 kW
COP Tj = -7°C	4.81
Pdh Tj = +2°C	10.40 kW
COP Tj = +2°C	5.14
Pdh Tj = +7°C	10.50 kW
COP Tj = +7°C	5.47
Pdh Tj = 12°C	10.60 kW
COP Tj = 12°C	5.84
Pdh Tj = Tbiv	10.30 kW

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COP Tj = Tbiv	4.75
Pdh Tj = TOL	10.30 kW
COP Tj = TOL	4.75
Rated airflow rate	0 m³/h
Cdh	0.90
WTOL	60 °C
Poff	0 W
PTO	85 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4091 kWh

## Warmer Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	50 dB(A)
Sound power level outdoor	0 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>

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$\eta_s$	199 %
Prated	10.00 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	10.30 kW
COP Tj = +2°C	4.75
Pdh Tj = +7°C	10.40 kW
COP Tj = +7°C	5.07
Pdh Tj = 12°C	10.60 kW
COP Tj = 12°C	5.59
Pdh Tj = Tbiv	10.30 kW
COP Tj = Tbiv	4.75
Pdh Tj = TOL	10.30 kW
COP Tj = TOL	4.75
Rated airflow rate	0 m³/h
Cdh	0.90
WTOL	60 °C



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Poff	0 W
PTO	85 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	2660 kWh

## Colder Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level indoor	50 dB(A)
Sound power level outdoor	0 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	206 %
Prated	13.00 kW
SCOP	5.10
Tbiv	-15 °C
TOL	-22 °C

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Pdh Tj = -7°C	10.50 kW
COP Tj = -7°C	5.31
Pdh Tj = +2°C	10.60 kW
COP Tj = +2°C	5.57
Pdh Tj = +7°C	10.60 kW
COP Tj = +7°C	5.78
Pdh Tj = 12°C	10.60 kW
COP Tj = 12°C	5.82
Pdh Tj = Tbiv	10.50 kW
COP Tj = Tbiv	5.20
Pdh Tj = TOL	10.50 kW
COP Tj = TOL	5.20
Rated airflow rate	0 m³/h
Cdh	0.90
WTOL	60 °C
Poff	0 W
PTO	85 W
PSB	10 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	2.50 kW

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Annual energy consumption Q <sub>he</sub>	5895 kWh
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