

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

Summary of	TERRA 8 HPLB	Reg. No.	011-1W0417
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 8 HPLB		
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

## General Data

Power supply	1x230V 50Hz
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## Average Climate

### EN 14825

	Low 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	
Pdh Tj = +2°C	7.70 kW
COP Tj = +2°C	5.22
Cdh	
Pdh Tj = +7°C	7.80 kW
COP Tj = +7°C	5.62
Cdh	

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Pdh Tj = 12°C	7.80 kW
COP Tj = 12°C	6.08
Cdh	
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	4.76
Pdh Tj = TOL	7.60 kW
COP Tj = TOL	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

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

## Heating

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<b>EN 14511-2</b>	
	<b>Low temperature</b>
Heat output	7.60 kW
El input	1.60 kW
COP	4.76
Indoor water flow rate	1.31 m <sup>3</sup> /h

<b>EN 14511-4</b>	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Warmer Climate

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	204 %
Prated	8.00 kW
SCOP	5.01
Tbiv	2 °C
TOL	2 °C

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Pdh Tj = +2°C	7.60 kW
COP Tj = +2°C	4.76
Cdh	
Pdh Tj = +7°C	7.70 kW
COP Tj = +7°C	5.13
Cdh	
Pdh Tj = 12°C	7.80 kW
COP Tj = 12°C	5.77
Cdh	
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	4.76
Pdh Tj = TOL	7.60 kW
COP Tj = TOL	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

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

## Colder Climate

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	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	
Pdh Tj = +2°C	7.80 kW
COP Tj = +2°C	5.74
Cdh	
Pdh Tj = +7°C	7.80 kW
COP Tj = +7°C	6.01
Cdh	

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Pdh Tj = 12°C	7.80 kW
COP Tj = 12°C	6.05
Cdh	
Pdh Tj = Tbiv	7.70 kW
COP Tj = Tbiv	5.29
Pdh Tj = TOL	7.70 kW
COP Tj = TOL	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

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

## Model: TERRA 8 HPLB, average climate

### General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	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
Indoor water flow rate	1.31 m <sup>3</sup> /h	0.74 m <sup>3</sup> /h

### EN 14511-4

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

## Average Climate

### EN 14825

	Low temperature	Medium temperature



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$\eta_s$	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		
Pdh Tj = +2°C	7.70 kW	7.20 kW
COP Tj = +2°C	5.22	3.41
Cdh		
Pdh Tj = +7°C	7.80 kW	7.40 kW
COP Tj = +7°C	5.62	3.85
Cdh		
Pdh Tj = 12°C	7.80 kW	7.50 kW
COP Tj = 12°C	6.08	4.39
Cdh		
Pdh Tj = Tbiv	7.60 kW	6.90 kW
COP Tj = Tbiv	4.76	2.73
Pdh Tj = TOL	7.60 kW	6.90 kW
COP Tj = TOL	4.76	2.73

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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

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