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Summary of	TERRA 18 HPLA	Reg. No.	011-1W0422
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 18 HPLA		
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

General Data	
Power supply	3x400V 50Hz

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	17.02 kW	15.60 kW
El input	3.75 kW	4.45 kW
COP	4.54	2.89
Indoor water flow rate	2.91 m³/h	2.91 m³/h

Average Climate

EN 12102-1

	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

	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	17.00 kW	15.80 kW
COP Tj = TOL	4.54	2.89
Rated airflow rate	0 m³/h	0 m³/h
Cdh	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

Warmer Climate

Colder Climate

Model: TERRA 18 HPLA, low temperature, all climates

General Data	
Power supply	3x400V 50Hz

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
Heat output	17.02 kW
El input	3.75 kW
COP	4.54
Indoor water flow rate	2.91 m³/h

Average Climate

EN 12102-1	
	Low temperature
Sound power level indoor	53 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low 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
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	17.00 kW
COP Tj = TOL	4.54
Rated airflow rate	0 m³/h
Cdh	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

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	53 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low temperature

η_s	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	17.00 kW
COP Tj = TOL	4.54
Rated airflow rate	0 m³/h
Cdh	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	4635 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	53 dB(A)
Sound power level outdoor	0 dB(A)

EN 14825	
	Low temperature
η_s	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	17.20 kW
COP Tj = TOL	4.92
Rated airflow rate	0 m³/h
Cdh	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