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Summary of	TERRA 14 HPLA	Reg. No.	011-1W0420
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 14 HPLA		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	30.09.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: TERRA 14 HPLA, AVERAGAE CLIMATE

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	13.21 kW	12.00 kW
El input	2.74 kW	3.93 kW
COP	4.82	3.05
Indoor water flow rate	2.28 m³/h	1.29 m³/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 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	142 %
Prated	13.00 kW	12.00 kW
SCOP	5.26	3.75
Tbiv	2 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	12.10 kW
COP Tj = -7°C	3.05	3.18
Cdh		
Pdh Tj = +2°C	12.00 kW	12.50 kW
COP Tj = +2°C	3.05	3.69
Cdh		
Pdh Tj = +7°C	12.40 kW	12.80 kW
COP Tj = +7°C	3.45	4.08
Cdh		
Pdh Tj = 12°C	12.90 kW	13.10 kW

COP Tj = 12°C	4.23	4.54
Cdh		
Pdh Tj = Tbiv	13.20 kW	12.00 kW
COP Tj = Tbiv	4.84	3.05
Pdh Tj = TOL	12.00 kW	12.00 kW
COP Tj = TOL	3.05	3.05
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	5186 kWh	6603 kWh

Model: TERRA 14 HPLA, low temperature, all climates

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2	
	Low temperature
Heat output	13.21 kW
El input	2.74 kW
COP	4.82
Indoor water flow rate	2.28 m³/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 12102-1	
	Low temperature
Sound power level indoor	50 dB(A)

EN 14825	
	Low temperature
η_s	203 %
Prated	13.00 kW
SCOP	5.26
Tbiv	2 °C
TOL	-20 °C
Pdh Tj = -7°C	12.00 kW
COP Tj = -7°C	3.05
Cdh	
Pdh Tj = +2°C	12.00 kW
COP Tj = +2°C	3.05
Cdh	
Pdh Tj = +7°C	12.40 kW
COP Tj = +7°C	3.45
Cdh	
Pdh Tj = 12°C	12.90 kW

COP Tj = 12°C	4.23
Cdh	
Pdh Tj = Tbiv	13.20 kW
COP Tj = Tbiv	4.84
Pdh Tj = TOL	12.00 kW
COP Tj = TOL	3.05
WTOL	65 °C
Poff	0 W
PTO	84 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	5186 kWh

Warmer Climate

EN 14825	
	Low temperature
η_s	202 %
Prated	13.00 kW
SCOP	5.25

Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	13.20 kW
COP Tj = +2°C	4.84
Cdh	
Pdh Tj = +7°C	13.30 kW
COP Tj = +7°C	5.13
Cdh	
Pdh Tj = 12°C	13.50 kW
COP Tj = 12°C	5.61
Cdh	
Pdh Tj = Tbiv	13.20 kW
COP Tj = Tbiv	4.84
Pdh Tj = TOL	13.20 kW
COP Tj = TOL	4.84
WTOL	65 °C
Poff	0 W
PTO	84 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity

Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	3361 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	50 dB(A)

Colder Climate

EN 14825	
	Low temperature
η_s	208 %
Prated	16.00 kW
SCOP	5.39
Tbiv	-15 °C
TOL	-22 °C
Pdh Tj = -7°C	13.40 kW
COP Tj = -7°C	5.35
Cdh	
Pdh Tj = +2°C	13.50 kW
COP Tj = +2°C	5.59
Cdh	

Pdh Tj = +7°C	13.60 kW
COP Tj = +7°C	5.78
Cdh	
Pdh Tj = 12°C	13.60 kW
COP Tj = 12°C	5.82
Cdh	
Pdh Tj = Tbiv	13.40 kW
COP Tj = Tbiv	5.25
Pdh Tj = TOL	13.40 kW
COP Tj = TOL	5.25
WTOL	65 °C
Poff	0 W
PTO	84 W
PSB	9 W
PCK	0 W
Supplementary Heater: Type of energy input	electrictity
Supplementary Heater: PSUP	3.21 kW
Annual energy consumption Qhe	7507 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	50 dB(A)