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Summary of	TERRA 11 HPLA	Reg. No.	011-1W0418
Certificate Holder			
Name	Ochsner Wärmepumpen GmbH		
Address	Krackowizerstraße 4	Zip	4020
City	Linz	Country	Austria
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	TERRA 11 HPLA		
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

Configure model	
Model name	TERRA 11 HPLA
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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	10.31 kW	9.28 kW
El input	2.05 kW	3.18 kW
COP	5.02	2.91

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
η_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 m³/h	0 m³/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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

η_s	215 %	136 %
Prated	10.00 kW	9.00 kW
SCOP	5.59	3.60
Tbiv	2 °C	2 °C
TOL	0 °C	0 °C
Pdh Tj = -7°C	0.00 kW	0.00 kW
COP Tj = -7°C	0.00	0.00
Pdh Tj = +2°C	10.30 kW	9.10 kW
COP Tj = +2°C	5.03	2.83
Pdh Tj = +7°C	10.40 kW	9.50 kW
COP Tj = +7°C	5.43	3.28
Pdh Tj = 12°C	10.60 kW	10.00 kW
COP Tj = 12°C	6.10	4.21
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	10.30 kW	91.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.03	2.83
Rated airflow rate	0 m³/h	0 m³/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	2466 kWh	3367 kWh

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
η_s	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 m³/h	0 m³/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 Qhe	5457 kWh	5457 kWh