

Subtype TERRA 11 HPLB

Certificate Holder	Ochsner Wärmepumpen GmbH
Address	Krackowizerstraße 4
ZIP	4020
City	Linz
Country	AT
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	TERRA 11 HPLB
Registration number	011-1W0419
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

Model name	TERRA 11 HPLB, average
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_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
COP Tj = Tbiv	4.75	2.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.30 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.75	2.90

Rated airflow rate	0 m ³ /h	0 m ³ /h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

Model TERRA 11 HPLB, all climates, low temperature

Model name	TERRA 11 HPLB, all climates, low temperature
Application	Heating (low temp)
Units	Indoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_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	
COP Tj = Tbiv	4.75	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.30 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.75	

Rated airflow rate	0 m ³ /h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	206 %	
Prated	13.00 kW	
SCOP	5.10	
Tbiv	-15 °C	
TOL	-22 °C	
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 or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.20	
Rated airflow rate	0 m ³ /h	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
Annual energy consumption Q _{he}	5895 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	199 %	
Prated	10.00 kW	
SCOP	4.91	
T _{biv}	2 °C	
TOL	2 °C	
P _{dh} T _j = -7°C	0.00 kW	
COP T _j = -7°C	0.00	
P _{dh} T _j = +2°C	10.30 kW	
COP T _j = +2°C	4.75	
P _{dh} T _j = +7°C	10.40 kW	
COP T _j = +7°C	5.07	
P _{dh} T _j = 12°C	10.60 kW	
COP T _j = 12°C	5.59	
P _{dh} T _j = T _{biv}	10.30 kW	
COP T _j = T _{biv}	4.75	
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	10.30 kW	
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.75	
Rated airflow rate	0 m ³ /h	
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	
WTOL	60 °C	
P _{off}	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 Q _{he}	2660 kWh	