

Subtype TERRA 8 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 8 HPLB
Registration number	011-1W0417
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

Model name	TERRA 8 HPLB, low temperature, all climates
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	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_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 Tj = -7 °C		
Pdh Tj = +2°C	7.70 kW	
COP Tj = +2°C	5.22	
Cdh Tj = +2 °C		
Pdh Tj = +7°C	7.80 kW	
COP Tj = +7°C	5.62	
Cdh Tj = +7 °C		
Pdh Tj = 12°C	7.80 kW	
COP Tj = 12°C	6.08	
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	7.60 kW	
COP Tj = Tbiv	4.76	

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	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 Tj = -7 °C		
Pdh Tj = +2°C	7.80 kW	
COP Tj = +2°C	5.74	
Cdh Tj = +2 °C		
Pdh Tj = +7°C	7.80 kW	
COP Tj = +7°C	6.01	
Cdh Tj = +7 °C		
Pdh Tj = 12°C	7.80 kW	
COP Tj = 12°C	6.05	
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	7.70 kW	
COP Tj = Tbiv	5.29	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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 Q _{he}	4238 kWh

EN 12102-1 | Warmer Climate

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

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	204 %	
Prated	8.00 kW	
SCOP	5.01	
T _{biv}	2 °C	
TOL	2 °C	
P _{dh} T _j = +2°C	7.60 kW	
COP T _j = +2°C	4.76	
C _{dh} T _j = +2 °C		
P _{dh} T _j = +7°C	7.70 kW	
COP T _j = +7°C	5.13	
C _{dh} T _j = +7 °C		
P _{dh} T _j = 12°C	7.80 kW	
COP T _j = 12°C	5.77	
C _{dh} T _j = +12 °C		
P _{dh} T _j = T _{biv}	7.60 kW	
COP T _j = T _{biv}	4.76	
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.60 kW	
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.76	
WTOL	60 °C	
P _{off}	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 Q _{he}	1918 kWh	

Model TERRA 8 HPLB, average climate

Model name	TERRA 8 HPLB, average climate
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	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_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 Tj = -7 °C		
Pdh Tj = +2°C	7.70 kW	7.20 kW
COP Tj = +2°C	5.22	3.41
Cdh Tj = +2 °C		
Pdh Tj = +7°C	7.80 kW	7.40 kW
COP Tj = +7°C	5.62	3.85
Cdh Tj = +7 °C		
Pdh Tj = 12°C	7.80 kW	7.50 kW
COP Tj = 12°C	6.08	4.39
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	7.60 kW	6.90 kW
COP Tj = Tbiv	4.76	2.73

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.76	2.73
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