Subtype S-Therm Ontario SMH-80	
Certificate Holder	SINCLAIR Global Group s.r.o.
Address	Purkyňova 45
ZIP	61200
City	Brno
Country	CZ
Certification Body	BRE Global Limited
Subtype title	S-Therm Ontario SMH-80
Registration number	041-K037-12
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.87 kg
Certification Date	28.02.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model SMH-80IRB		
Model name	SMH-80IRB	
Application	Heating + DHW	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	
Any additional heat sources	n/a	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 16147 | Average Climate		
Declared load profile	XL	
Efficiency ηDHW	106 %	
COP	2.53	
Heating up time	2:59 h:min	
Standby power input	62.2 W	
Reference hot water temperature	51.7 °C	
Mixed water at 40°C	379 l	
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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	6.50 kW	
El input	2.40 kW	
COP	2.71	
EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	
EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	127 %	
Prated	7.00 kW	

SCOP	3.27
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	6.20 kW
COP Tj = -7°C	2.22
Cdh Tj = -7 °C	0.96
Pdh Tj = +2°C	4.00 kW
COP Tj = +2°C	3.13
Cdh Tj = +2 °C	0.96
Pdh Tj = +7°C	2.43 kW
COP Tj = +7°C	4.26
Cdh Tj = +7 °C	0.96
Pdh Tj = 12°C	2.98 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.96
Pdh Tj = Tbiv	6.20 kW
COP Tj = Tbiv	2.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.78
WTOL	55 °C
Poff	18 W
PTO	18 W
PSB	18 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	2.66 kW
Annual energy consumption Qhe	4423 kWh