

Subtype S-Therm Ontario SMH-40

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-40
Registration number	041-K037-10
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

Model SMH-40IRB		
Model name	SMH-40IRB	
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 η_{DHW}	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	2.78 kW	
El input	1.32 kW	
COP	2.11	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	64 dB(A)	
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	127 %	
Prated	6.00 kW	
SCOP	3.26	

Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.22 kW
COP Tj = -7°C	2.22
Cdh Tj = -7 °C	0.97
Pdh Tj = +2°C	3.31 kW
COP Tj = +2°C	3.13
Cdh Tj = +2 °C	0.97
Pdh Tj = +7°C	2.46 kW
COP Tj = +7°C	4.19
Cdh Tj = +7 °C	0.97
Pdh Tj = 12°C	2.98 kW
COP Tj = 12°C	5.52
Cdh Tj = +12 °C	0.97
Pdh Tj = Tbiv	5.22 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	1.66 kW
Annual energy consumption Qhe	3808 kWh