

Subtype S-Therm Ontario SMH-100	
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-100
Registration number	041-K037-13
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.2 kg
Certification Date	28.02.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 11



Model SMH-100IRB2		
Model name	SMH-100IRB2	
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	110 %	
COP	2.62	
Heating up time	1:52 h:min	
Standby power input	62.6 W	
Reference hot water temperature	52.8 °C	
Mixed water at 40°C	372 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	8.50 kW	
El input	3.30 kW	
COP	2.57	
EN 12102-1 Average Climate		
	Low tomporations	Madium tamparatura
Sound power level outdoor	Low temperature 69 dB(A)	Medium temperature
EN 14825 Average Climate		
	Low temperature	Medium temperature
ης	126 %	
Prated	8.00 kW	
SCOP	3.22	



Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7° C	7.10 kW
$COP Tj = -7^{\circ}C$	1.98
Cdh Tj = -7 °C	0.98
Pdh Tj = $+2$ °C	4.50 kW
$COP Tj = +2^{\circ}C$	3.15
Cdh Tj = +2 °C	0.98
Pdh Tj = $+7^{\circ}$ C	5.73 kW
$COP Tj = +7^{\circ}C$	4.30
Cdh Tj = +7 °C	0.98
Pdh Tj = 12°C	6.40 kW
COP Tj = 12°C	5.50
Cdh Tj = +12 °C	0.98
Pdh Tj = Tbiv	7.10 kW
COP Tj = Tbiv	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.70
WTOL	55 °C
Poff	18 W
PTO	18 W
PSB	18 W
PCK	18 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	5128 kWh



Model SMH-100IRB2-3		
Model name	SMH-100IRB2-3	
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	3x400V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 16147 Average Climate		
Declared load profile	XL	
Efficiency ηDHW	110 %	
COP	2.62	
Heating up time	1:52 h:min	
Standby power input	62.6 W	
Reference hot water temperature	52.8 °C	
Mixed water at 40°C	372 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	8.50 kW	,
El input	3.30 kW	
COP	2.57	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	
EN 14825 Average Climate		
	Lavy banks and the	Madium taman sastura
nc	Low temperature 126 %	Medium temperature
ηs Prated	8.00 kW	
SCOP	3.22	
JCUF	3.22	



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Cdh Tj = -7 °C	0.98
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$COP Tj = +2^{\circ}C$	3.15
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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	0.00 kW
Annual energy consumption Qhe	5128 kWh