

Subtype S-Therm Ontario SMH-120

| | |
|---------------------|---------------------------------------|
| 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-120 |
| Registration number | 041-K037-14 |
| 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-120IRB2

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|-------------------------------------|---------------|
| Model name | SMH-120IRB2 |
| 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} | 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 | 10.50 kW | |
| El input | 4.12 kW | |
| COP | 2.55 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 69 dB(A) | |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 126 % | |
| Prated | 10.00 kW | |
| SCOP | 3.23 | |

| | |
|---|-------------|
| Tbiv | -7 °C |
| TOL | -10 °C |
| Pdh Tj = -7°C | 8.40 kW |
| COP Tj = -7°C | 2.05 |
| Cdh Tj = -7 °C | 0.98 |
| Pdh Tj = +2°C | 5.50 kW |
| COP Tj = +2°C | 3.15 |
| Cdh Tj = +2 °C | 0.98 |
| Pdh Tj = +7°C | 5.76 kW |
| COP Tj = +7°C | 4.24 |
| Cdh Tj = +7 °C | 0.98 |
| Pdh Tj = 12°C | 6.36 kW |
| COP Tj = 12°C | 5.06 |
| Cdh Tj = +12 °C | 0.98 |
| Pdh Tj = Tbiv | 8.40 kW |
| COP Tj = Tbiv | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.80 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.75 |
| 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 | 0.20 kW |
| Annual energy consumption Qhe | 6406 kWh |

Model SMH-120IRB2-3

| | |
|-------------------------------------|---------------|
| Model name | SMH-120IRB2-3 |
| 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 η_{DHW} | 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 | 10.50 kW | |
| El input | 4.12 kW | |
| COP | 2.55 | |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 69 dB(A) | |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| η_s | 126 % | |
| Prated | 10.00 kW | |
| SCOP | 3.23 | |

| | |
|---|-------------|
| Tbiv | -7 °C |
| TOL | -10 °C |
| Pdh Tj = -7°C | 8.40 kW |
| COP Tj = -7°C | 2.05 |
| Cdh Tj = -7 °C | 0.98 |
| Pdh Tj = +2°C | 5.50 kW |
| COP Tj = +2°C | 3.15 |
| Cdh Tj = +2 °C | 0.98 |
| Pdh Tj = +7°C | 5.76 kW |
| COP Tj = +7°C | 4.24 |
| Cdh Tj = +7 °C | 0.98 |
| Pdh Tj = 12°C | 6.36 kW |
| COP Tj = 12°C | 5.06 |
| Cdh Tj = +12 °C | 0.98 |
| Pdh Tj = Tbiv | 8.40 kW |
| COP Tj = Tbiv | 2.05 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.80 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.75 |
| 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 | 0.20 kW |
| Annual energy consumption Qhe | 6406 kWh |