This information was generated by the HP KEYMARK database on 17 Dec 2020

| Summary of | HP20L-M-BC / S18L-M-CC | Reg. No. | 011-1W0205 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | Heliotherm GmbH | | |
| Address | Sportplatzweg 18 | Zip | A-6336 |
| City | Langkampfen | Country | Austria |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH | | |
| Name of testing laboratory | Wärmepumpen-Testzentrum WPZ | | |
| Subtype title | HP20L-M-BC / S18L-M-CC | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410a | | |
| Mass Of Refrigerant | 8 kg | | |

# Model: HELIOTHERM - Luft-/Wasserwärmepumpe in Splittbauweise modulierend Baureihe Basic Comfort

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | |
|---|---|
| | **Low temperature** |
| Heat output | 16.15 kW |
| El input | 3.01 kW |
| COP | 5.37 |
| Indoor water flow rate | 3.70 m³/h |

## Average Climate

## EN 14825

| | **Low temperature** |
|---|---|
| $\eta_s$ | 208 % |
| Prated | 18.00 kW |
| SCOP | 5.21 |
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = -7°C | 16.18 kW |
| COP Tj = -7°C | 3.19 |
| Pdh Tj = +2°C | 9.20 kW |
| COP Tj = +2°C | 5.22 |
| Pdh Tj = +7°C | 6.94 kW |
| COP Tj = +7°C | 6.64 |
| Pdh Tj = 12°C | 8.13 kW |
| COP Tj = 12°C | 7.64 |
| Pdh Tj = Tbiv | 18.47 kW |
| COP Tj = Tbiv | 2.67 |
| Pdh Tj = TOL | 18.47 kW |
| COP Tj = TOL | 2.67 |
| Cdh | 0.01 |
| WTOL | 62 °C |

| | |
|---|---|
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Elektrizität |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 6062 kWh |

| **EN 12102-1** | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 43 dB(A) |

## Warmer Climate

| **EN 14825** | |
|---|---|
| | **Low temperature** |
| $\eta_s$ | 262 % |
| Prated | 18.00 kW |
| SCOP | 6.56 |
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = +2°C | 18.40 kW |

| | |
|---|---|
| COP Tj = +2°C | 4.39 |
| Pdh Tj = +7°C | 11.35 kW |
| COP Tj = +7°C | 6.16 |
| Pdh Tj = 12°C | 7.48 kW |
| COP Tj = 12°C | 7.38 |
| Pdh Tj = Tbiv | 18.40 kW |
| COP Tj = Tbiv | 4.39 |
| Pdh Tj = TOL | 18.40 kW |
| COP Tj = TOL | 4.39 |
| Cdh | 0.01 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Elektrizität |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 4568 kWh |

| EN 12102-1 | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 43 dB(A) |

## Colder Climate

| EN 14825 | |
|---|---|
| | **Low temperature** |
| $\eta_s$ | 175 % |
| Prated | 18.00 kW |
| SCOP | 4.38 |
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = -7°C | 11.20 kW |
| COP Tj = -7°C | 3.70 |
| Pdh Tj = +2°C | 6.97 kW |
| COP Tj = +2°C | 5.51 |
| Pdh Tj = +7°C | 6.39 kW |
| COP Tj = +7°C | 6.13 |
| Pdh Tj = 12°C | 7.67 kW |
| COP Tj = 12°C | 7.62 |
| Pdh Tj = Tbiv | 10.38 kW |

| | |
|---|---|
| COP Tj = Tbiv | 1.88 |
| Pdh Tj = TOL | 15.08 kW |
| COP Tj = TOL | 1.29 |
| Cdh | 0.01 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | E |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 8791 kWh |

| **EN 12102-1** | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 43 dB(A) |

# Model: HELIOTHERM - Luft-/Wasserwärmepumpe modulierend Baureihe Sensor Comfort Compact

| General Data | |
|---|---|
| Power supply | 3x400V 50Hz |

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | |
|---|---|
| | **Low temperature** |
| Heat output | 17.55 kW |
| El input | 3.50 kW |
| COP | 5.01 |
| Indoor water flow rate | 3.70 m³/h |

## Average Climate

| EN 14825 |
|---|

| | **Low temperature** |
|---|---|
| $\eta_s$ | 195 % |
| Prated | 18.00 kW |
| SCOP | 4.96 |
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = -7°C | 15.86 kW |
| COP Tj = -7°C | 3.04 |
| Pdh Tj = +2°C | 9.02 kW |
| COP Tj = +2°C | 4.97 |
| Pdh Tj = +7°C | 6.80 kW |
| COP Tj = +7°C | 6.32 |
| Pdh Tj = 12°C | 7.97 kW |
| COP Tj = 12°C | 7.28 |
| Pdh Tj = Tbiv | 18.11 kW |
| COP Tj = Tbiv | 2.54 |
| Pdh Tj = TOL | 18.11 kW |
| COP Tj = TOL | 2.54 |
| Cdh | 0.01 |
| WTOL | 62 °C |
| Poff | 1 W |

| | |
|---|---|
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Elektrizität |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 5081 kWh |

| **EN 12102-1** | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 44 dB(A) |

## Warmer Climate

| **EN 12102-1** | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 44 dB(A) |

| **EN 14825** | |
|---|---|
| | **Low temperature** |
| $\eta_s$ | 247 % |
| Prated | 18.00 kW |
| SCOP | 6.25 |

| | |
|---|---|
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = +2°C | 18.04 kW |
| COP Tj = +2°C | 4.18 |
| Pdh Tj = +7°C | 11.30 kW |
| COP Tj = +7°C | 5.87 |
| Pdh Tj = 12°C | 7.33 kW |
| COP Tj = 12°C | 7.03 |
| Pdh Tj = Tbiv | 18.04 kW |
| COP Tj = Tbiv | 4.18 |
| Pdh Tj = TOL | 18.04 kW |
| COP Tj = TOL | 4.18 |
| Cdh | 0.01 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Elektrizität |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 4032 kWh |

# Colder Climate

| EN 12102-1 | |
|---|---|
| | **Low temperature** |
| Sound power level indoor | 44 dB(A) |

| EN 14825 | |
|---|---|
| | **Low temperature** |
| $\eta_s$ | 183 % |
| Prated | 18.00 kW |
| SCOP | 4.64 |
| Tbiv | -18 °C |
| TOL | -25 °C |
| Pdh Tj = -7°C | 10.98 kW |
| COP Tj = -7°C | 3.52 |
| Pdh Tj = +2°C | 6.83 kW |
| COP Tj = +2°C | 5.25 |
| Pdh Tj = +7°C | 6.26 kW |
| COP Tj = +7°C | 5.84 |
| Pdh Tj = 12°C | 7.52 kW |
| COP Tj = 12°C | 7.26 |
| Pdh Tj = Tbiv | 16.52 kW |

| | |
|---|---|
| COP Tj = Tbiv | 2.16 |
| Pdh Tj = TOL | 14.33 kW |
| COP Tj = TOL | 1.15 |
| Cdh | 0.01 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Elektrizität |
| Supplementary Heater: PSUP | 6.00 kW |
| Annual energy consumption Qhe | 8147 kWh |