## Subtype HP08L-M-BC

| | |
|---|---|
| Certificate Holder | Heliotherm GmbH |
| Address | Sportplatzweg 18 |
| ZIP | A-6336 |
| City | Langkampfen |
| Country | AT |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | HP08L-M-BC |
| Registration number | 011-1W0203 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R410A |
| Mass of Refrigerant | 7.4 kg |
| Certification Date | 14.12.2017 |
| Testing basis | HP KEYMARK certification scheme rules rev. 8 |

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

| | |
|---|---|
| Model name | HELIOTHERM - Luft-/Wasserwärmepumpe in Splittbauweise modulierend Baureihe Basic Comfort |
| Application | Heating (low temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

## General data

| | |
|---|---|
| Power supply | 3x400V 50Hz |
| Off-peak product | Yes |

## Outdoor Air/Water

## 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 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 40 dB(A) | |
| Sound power level outdoor | 40 dB(A) | |

## EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 185 % | |
| Prated | 10.00 kW | |
| SCOP | 4.71 | |
| Tbiv | -10 °C | |
| TOL | -10 °C | |
| Pdh Tj = -7°C | 8.84 kW | |
| COP Tj = -7°C | 2.84 | |
| Cdh Tj = -7 °C | 0.990 | |
| Pdh Tj = +2°C | 5.50 kW | |
| COP Tj = +2°C | 4.78 | |
| Cdh Tj = +2 °C | 0.990 | |
| Pdh Tj = +7°C | 5.97 kW | |
| COP Tj = +7°C | 5.93 | |
| Cdh Tj = +7 °C | 0.990 | |
| Pdh Tj = 12°C | 6.74 kW | |
| COP Tj = 12°C | 7.38 | |
| Cdh Tj = +12 °C | 0.990 | |
| Pdh Tj = Tbiv | 10.20 kW | |

| | |
|---|---|
| COP Tj = Tbiv | 2.31 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.20 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.31 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 0.00 kW |
| Annual energy consumption Qhe | 4400 kWh |

## EN 12102-1 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 40 dB(A) | |
| Sound power level outdoor | 40 dB(A) | |

## EN 14825 | Colder Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 167 % | |
| Prated | 10.00 kW | |
| SCOP | 4.25 | |
| Tbiv | -18 °C | |
| TOL | -22 °C | |
| Pdh Tj = -7°C | 6.20 kW | |
| COP Tj = -7°C | 3.83 | |
| Cdh Tj = -7 °C | 0.990 | |
| Pdh Tj = +2°C | 3.77 kW | |
| COP Tj = +2°C | 5.05 | |
| Cdh Tj = +2 °C | 0.990 | |
| Pdh Tj = +7°C | 3.90 kW | |
| COP Tj = +7°C | 5.59 | |
| Cdh Tj = +7 °C | 0.990 | |
| Pdh Tj = 12°C | 4.69 kW | |
| COP Tj = 12°C | 6.68 | |
| Cdh Tj = +12 °C | 0.990 | |
| Pdh Tj = Tbiv | 8.91 kW | |
| COP Tj = Tbiv | 2.23 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.84 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.38 | |

| | |
|---|---|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 |
| WTOL | 62 °C |
| Poff | 1 W |
| PTO | 7 W |
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 2.16 kW |
| Annual energy consumption Qhe | 4941 kWh |
| Pdh Tj = -15°C (if TOL | 8.22 |
| COP Tj = -15°C (if TOL | 2.49 |
| Cdh Tj = -15 °C | 0.990 |

EN 12102-1 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| Sound power level indoor | 40 dB(A) | |
| Sound power level outdoor | 40 dB(A) | |

EN 14825 | Warmer Climate

| | Low temperature | Medium temperature |
|---|---|---|
| ηs | 241 % | |
| Prated | 10.00 kW | |
| SCOP | 6.10 | |
| Tbiv | 2 °C | |
| TOL | 2 °C | |
| Pdh Tj = +2°C | 10.03 kW | |
| COP Tj = +2°C | 4.36 | |
| Cdh Tj = +2 °C | 0.990 | |
| Pdh Tj = +7°C | 6.45 kW | |
| COP Tj = +7°C | 5.96 | |
| Cdh Tj = +7 °C | 0.990 | |
| Pdh Tj = 12°C | 4.63 kW | |
| COP Tj = 12°C | 6.62 | |
| Cdh Tj = +12 °C | 0.990 | |
| Pdh Tj = Tbiv | 10.03 kW | |
| COP Tj = Tbiv | 4.36 | |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.03 kW | |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.36 | |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | |
| WTOL | 62 °C | |
| Poff | 1 W | |
| PTO | 7 W | |

| | |
|---|---|
| PSB | 7 W |
| PCK | 6 W |
| Supplementary Heater: Type of energy input | Electricity |
| Supplementary Heater: PSUP | 0.00 kW |
| Annual energy consumption Qhe | 2295 kWh |