

Subtype E-TEC 33 Hybrid

| | |
|---------------------|---|
| Certificate Holder | Alpha Therm Ltd. |
| Address | Nepicar House, London Road |
| ZIP | TN15 7RS |
| City | Kent |
| Country | GB |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | E-TEC 33 Hybrid |
| Registration number | 011-1W0572 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 0.56 kg |
| Testing basis | HP KEYMARK certification scheme rules rev. 10 |

Model E-TEC EHP / E-TEC 33 HB

| | |
|-------------------------------------|-------------------------|
| Model name | E-TEC EHP / E-TEC 33 HB |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| 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 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.83 kW | 3.28 kW |
| El input | 0.85 kW | 1.29 kW |
| COP | 4.49 | 2.56 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 50 dB(A) | 50 dB(A) |
| Sound power level outdoor | 59 dB(A) | 59 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 163 % | 128 % |
| Prated | 5.20 kW | 5.60 kW |
| SCOP | 4.15 | 3.28 |
| Tbiv | 2 °C | 2 °C |
| TOL | -5 °C | -3 °C |
| Pdh Tj = -7°C | 0.01 kW | 0.01 kW |
| COP Tj = -7°C | 1.00 | 1.00 |
| Pdh Tj = +2°C | 2.80 kW | 3.00 kW |
| COP Tj = +2°C | 4.31 | 3.19 |
| Pdh Tj = +7°C | 3.40 kW | 3.20 kW |
| COP Tj = +7°C | 5.78 | 4.52 |
| Pdh Tj = 12°C | 3.90 kW | 3.90 kW |
| COP Tj = 12°C | 8.02 | 6.42 |

| | | |
|---|-------------|-------------|
| Pdh Tj = Tbiv | 2.80 kW | 3.00 kW |
| COP Tj = Tbiv | 4.31 | 3.19 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.00 kW | 2.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.15 | 2.49 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.00 | 1.00 |
| WTOL | 33 °C | 48 °C |
| Poff | 15 W | 15 W |
| PTO | 15 W | 15 W |
| PSB | 15 W | 15 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 5.20 kW | 5.60 kW |
| Annual energy consumption Qhe | 2588 kWh | 3511 kWh |