

Subtype Air Source Heat Pump-R32-18

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|---------------------|---|
| Certificate Holder | ENVIRON Energie- und Umwelttechnik GmbH und Co.KG |
| Address | Robert-Bosch-Straße 9 |
| ZIP | 78048 |
| City | Villingen |
| Country | DE |
| Certification Body | BRE Global Limited |
| Subtype title | Air Source Heat Pump-R32-18 |
| Registration number | 041-K110-04 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 3.5 kg |
| Certification Date | 19.02.2025 |
| Testing basis | HP KEYMARK certification scheme rules rev. no.15 |

Model ENHP-18-R32

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|-------------------------------------|-----------------------|
| Model name | ENHP-18-R32 |
| Application | Heating (medium temp) |
| 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 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

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|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 18.62 kW | 18.66 kW |
| El input | 4.05 kW | 5.99 kW |
| COP | 4.60 | 3.12 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 70 dB(A) | 71 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 178 % | 128 % |
| Prated | 13.75 kW | 13.73 kW |
| SCOP | 4.53 | 3.28 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.17 kW | 12.15 kW |
| COP Tj = -7°C | 3.41 | 2.52 |
| Cdh Tj = -7 °C | 0.900 | 0.900 |
| Pdh Tj = +2°C | 7.39 kW | 7.36 kW |
| COP Tj = +2°C | 4.39 | 3.30 |
| Cdh Tj = +2 °C | 0.900 | 0.900 |
| Pdh Tj = +7°C | 6.46 kW | 5.86 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 5.62 | 3.82 |
| Cdh Tj = +7 °C | 0.900 | 0.900 |
| Pdh Tj = 12°C | 6.28 kW | 6.83 kW |
| COP Tj = 12°C | 7.99 | 5.12 |
| Cdh Tj = +12 °C | 0.900 | 0.900 |
| Pdh Tj = Tbiv | 12.17 kW | 12.15 kW |
| COP Tj = Tbiv | 3.41 | 2.52 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.39 kW | 11.03 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10 | 2.20 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.900 | 0.900 |
| WTOL | 50 °C | 50 °C |
| Poff | 11 W | 11 W |
| PTO | 37 W | 37 W |
| PSB | 11 W | 11 W |
| PCK | 40 W | 40 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.37 kW | 2.70 kW |
| Annual energy consumption Qhe | 6271 kWh | 8646 kWh |