

Subtype Monoblock Heat Pump 4 6 kW

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|---------------------|---|
| Certificate Holder | Zhejiang Zhongguang Electrical Co., Ltd. |
| Address | No. 96 Yunjing Road Shuige Industry Area, Lishui |
| ZIP | 323000 |
| City | Zhejiang |
| Country | CN |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | Monoblock Heat Pump 4 6 kW |
| Registration number | 011-1W0670 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R32 |
| Mass of Refrigerant | 1.2 kg |
| Certification Date | 23.08.2023 |
| Testing basis | HP KEYMARK certification scheme rules V12 |

Model AHb04VR3HP

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|-------------------------------------|-----------------------|
| Model name | AHb04VR3HP |
| 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 | 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 |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 4.20 kW | 4.40 kW |
| El input | 0.82 kW | 1.47 kW |
| COP | 5.15 | 3.00 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 57 dB(A) | 57 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 195 % | 139 % |
| Prated | 4.10 kW | 4.00 kW |
| SCOP | 4.95 | 3.56 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 3.65 kW | 3.55 kW |
| COP Tj = -7°C | 3.29 | 2.10 |
| Cdh Tj = -7 °C | 0.980 | 0.990 |
| Pdh Tj = +2°C | 2.33 kW | 2.39 kW |
| COP Tj = +2°C | 4.60 | 3.36 |
| Cdh Tj = +2 °C | 0.960 | 0.970 |
| Pdh Tj = +7°C | 2.28 kW | 2.68 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 7.23 | 5.56 |
| Cdh Tj = +7 °C | 0.930 | 0.960 |
| Pdh Tj = 12°C | 1.94 kW | 2.64 kW |
| COP Tj = 12°C | 10.04 | 6.82 |
| Cdh Tj = +12 °C | 0.920 | 0.950 |
| Pdh Tj = Tbiv | 3.65 kW | 3.55 kW |
| COP Tj = Tbiv | 3.29 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.49 kW | 3.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.78 | 1.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.980 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 21 W | 21 W |
| PSB | 15 W | 15 W |
| PCK | 43 W | 43 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.61 kW | 0.50 kW |
| Annual energy consumption Qhe | 1711 kWh | 2320 kWh |

Model AHb06VR3HP

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|-------------------------------------|-----------------------|
| Model name | AHb06VR3HP |
| 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 | 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 |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.20 kW | 6.00 kW |
| El input | 1.24 kW | 2.00 kW |
| COP | 5.00 | 3.00 |

EN 12102-1 | Average Climate

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

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 185 % | 131 % |
| Prated | 6.10 kW | 5.20 kW |
| SCOP | 4.71 | 3.35 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.41 kW | 4.62 kW |
| COP Tj = -7°C | 3.15 | 2.04 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 3.53 kW | 3.60 kW |
| COP Tj = +2°C | 4.08 | 3.07 |
| Cdh Tj = +2 °C | 0.980 | 0.980 |
| Pdh Tj = +7°C | 2.28 kW | 2.68 kW |

| | | |
|---|-------------|-------------|
| COP Tj = +7°C | 7.27 | 5.26 |
| Cdh Tj = +7 °C | 0.930 | 0.960 |
| Pdh Tj = 12°C | 1.94 kW | 2.64 kW |
| COP Tj = 12°C | 10.14 | 6.84 |
| Cdh Tj = +12 °C | 0.920 | 0.950 |
| Pdh Tj = Tbiv | 5.41 kW | 4.62 kW |
| COP Tj = Tbiv | 3.15 | 2.04 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.25 kW | 4.07 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.84 | 1.56 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 60 °C | 60 °C |
| Poff | 15 W | 15 W |
| PTO | 21 W | 21 W |
| PSB | 15 W | 15 W |
| PCK | 43 W | 43 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.85 kW | 1.13 kW |
| Annual energy consumption Qhe | 2677 kWh | 3208 kWh |