

This information was generated by the HP KEYMARK database on 18 Mar 2022

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| | | | |
|---------------------|---|----------|----------------|
| Summary of | BoxAir Inverter BA45I | Reg. No. | 037-0066-21 |
| Certificate Holder | | | |
| Name | Master Therm tepelna cerpadla s.r.o. | | |
| Address | Vaclavske namesti 819/43 | Zip | 110 00 |
| City | Praha | Country | Czech Republic |
| Certification Body | SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise) | | |
| Subtype title | BoxAir Inverter BA45I | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass of Refrigerant | 3 kg | | |
| Certification Date | 26.01.2021 | | |
| Testing basis | HP Keymark scheme rules rev. no. 7 | | |

Model: BoxAir Inverter BA45I

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | BoxAir Inverter BA45I |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

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

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 15.05 kW | 14.27 kW |
| El input | 3.14 kW | 4.51 kW |
| COP | 4.80 | 3.16 |

| EN 14511-4 | |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 60 dB(A) | 60 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 194 % | 146 % |
| Prated | 14.22 kW | 13.97 kW |
| SCOP | 4.92 | 3.72 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.58 kW | 12.35 kW |
| COP Tj = -7°C | 2.87 | 2.10 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 7.28 kW | 6.92 kW |
| COP Tj = +2°C | 4.75 | 3.67 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 5.02 kW | 4.95 kW |
| COP Tj = +7°C | 6.91 | 5.07 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |
| Pdh Tj = 12°C | 4.44 kW | 4.30 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 8.54 | 6.46 |
| Cdh Tj = +12 °C | 0.96 | 0.97 |
| Pdh Tj = Tbiv | 12.58 kW | 12.35 kW |
| COP Tj = Tbiv | 2.87 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.69 kW | 12.01 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.63 | 1.92 |
| WTOL | 60 °C | 60 °C |
| Poff | 19 W | 19 W |
| PTO | 19 W | 19 W |
| PSB | 19 W | 19 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.53 kW | 1.96 kW |
| Annual energy consumption Qhe | 5967 kWh | 7748 kWh |