

This information was generated by the HP KEYMARK database on 22 Jun 2022

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| | | | |
|---------------------|---|----------|----------------|
| Summary of | BoxAir Inverter BA45IS-1 | Reg. No. | 037-0071-21 |
| 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 BA45IS-1 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 4.7 kg | | |
| Certification Date | 26.01.2021 | | |
| Testing basis | HP Keymark scheme rules rev. no. 7 | | |

Model: BoxAir Inverter BA45IS-1

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | BoxAir Inverter BA45IS-1 |
| Application | Heating (medium temp) |
| Units | Indoor + 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 | 15.29 kW | 14.19 kW |
| El input | 3.23 kW | 4.51 kW |
| COP | 4.73 | 3.15 |

| 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 indoor | 48 dB(A) | 48 dB(A) |
| Sound power level outdoor | 62 dB(A) | 62 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 176 % | 136 % |
| Prated | 13.37 kW | 12.05 kW |
| SCOP | 4.46 | 3.48 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.83 kW | 10.66 kW |
| COP Tj = -7°C | 2.77 | 2.10 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 7.91 kW | 6.82 kW |
| COP Tj = +2°C | 4.17 | 3.28 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 4.88 kW | 4.38 kW |
| COP Tj = +7°C | 6.44 | 5.00 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.73 kW | 4.83 kW |
| COP Tj = 12°C | 7.93 | 6.13 |
| Cdh Tj = +12 °C | 0.97 | 0.98 |
| Pdh Tj = Tbiv | 11.83 kW | 10.66 kW |
| COP Tj = Tbiv | 2.77 | 2.10 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 10.96 kW | 9.57 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.32 | 1.77 |
| 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 | 2.42 kW | 2.48 kW |
| Annual energy consumption Qhe | 6190 kWh | 7160 kWh |