

## Subtype BoxAir Inverter BA60IS-1

Certificate Holder	Master Therm tepelna cerpadla s.r.o.
Address	Vaclavske namesti 819/43
ZIP	110 00
City	Praha
Country	CZ
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	BoxAir Inverter BA60IS-1
Registration number	037-0072-21
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	6.9 kg
Certification Date	26.01.2021
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

## Model BoxAir Inverter BA60IS-1

Model name	BoxAir Inverter BA60IS-1
Application	Heating (medium temp)
Units	Indoor, 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

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

### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	19.83 kW	22.96 kW
El input	4.24 kW	7.40 kW
COP	4.68	3.10

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	177 %	135 %
Prated	22.57 kW	22.06 kW
SCOP	4.50	3.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	20.64 kW	20.77 kW
COP Tj = -7°C	2.64	2.04
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	12.68 kW	12.27 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	8.04 kW	7.81 kW
COP Tj = +7°C	6.61	5.06
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.26 kW	9.01 kW
COP Tj = 12°C	8.02	6.13
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	22.57 kW	22.06 kW
COP Tj = Tbiv	2.35	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.57 kW	22.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.35	1.55
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	26 W	26 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10351 kWh	13226 kWh