

Subtype BoxAir Inverter BA37IS-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 BA37IS-1
Registration number	037-0070-21
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.5 kg
Certification Date	26.01.2021
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

Model BoxAir Inverter BA37IS-1

Model name	BoxAir Inverter BA37IS-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	11.46 kW	10.34 kW
EI input	2.43 kW	3.37 kW
COP	4.71	3.07

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	137 %
Prated	10.93 kW	10.02 kW
SCOP	4.49	3.51
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.67 kW	8.86 kW
COP Tj = -7°C	2.64	2.00
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	6.10 kW	5.45 kW
COP Tj = +2°C	4.38	3.41
Cdh Tj = +2 °C	0.90	0.90

Pdh Tj = +7°C	4.06 kW	3.48 kW
COP Tj = +7°C	6.19	4.94
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.75 kW	4.08 kW
COP Tj = 12°C	7.62	6.01
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	9.67 kW	8.86 kW
COP Tj = Tbiv	2.64	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.04 kW	8.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.85
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	1.89 kW	1.80 kW
Annual energy consumption Qhe	5029 kWh	5905 kWh