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Login

Summary of	BoxAir Inverter BA22I	Reg. No.	037-0063-21
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 BA22I		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	26.01.2021		
Testing basis	HP Keymark scheme rules rev. no. 7		

Disclaimer: this document is a summary of the certified performance.
The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

Model: BoxAir Inverter BA22I

Configure model	
Model name	BoxAir Inverter BA22I
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.91 kW	4.52 kW
El input	1.01 kW	1.49 kW
COP	4.84	3.05

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	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	177 %	132 %
Prated	4.51 kW	4.21 kW
SCOP	4.51	3.38
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.99 kW	3.72 kW
COP Tj = -7°C	2.74	2.04
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.31 kW	2.16 kW
COP Tj = +2°C	4.31	3.19
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	1.68 kW	1.48 kW
COP Tj = +7°C	6.44	4.89
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	1.60 kW	1.51 kW

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COP Tj = 12°C	7.80	5.93
Cdh Tj = +12 °C	0.91	0.93
Pdh Tj = Tbiv	3.99 kW	3.72 kW
COP Tj = Tbiv	2.73	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.68 kW	3.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.90
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	0.83 kW	0.74 kW
Annual energy consumption Qhe	2068 kWh	2570 kWh

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