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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