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Summary of	JAMA Star-40	Reg. No.	012-SC0670-18
Certificate Holder			
Name	Kaukora		
Address	Tuotekatu 11	Zip	FI-21200
City	Raisio	Country	Finland
Certification Body	RISE CERT		
Name of testing laboratory	AIT		
Subtype title	JAMA Star-40		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	3.4 kg		

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Model: Star-40

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	39.94 kW	37.80 kW
El input	8.90 kW	11.90 kW
СОР	4.49	3.18
Indoor water flow rate	7.92 m³/h	4.95 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Average Climate

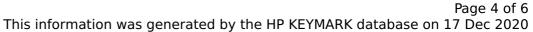


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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	182 %	143 %
Prated	46.00 kW	46.00 kW
SCOP	4.75	3.78
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	40.10 kW	38.20 kW
COP Tj = -7°C	4.62	3.33
Pdh Tj = +2°C	40.30 kW	39.10 kW
COP Tj = +2°C	4.78	3.79
Pdh Tj = +7°C	20.30 kW	19.90 kW
COP Tj = +7°C	5.11	4.21
Pdh Tj = 12°C	20.40 kW	20.10 kW
COP Tj = 12°C	5.09	4.51
Pdh Tj = Tbiv	40.10 kW	28.40 kW
COP Tj = Tbiv	4.63	3.41

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Pdh Tj = TOL	40.00 kW	37.80 kW
COP Tj = TOL	4.50	3.19
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	100 W	100 W
PSB	7 W	7 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Qhe	19996 kWh	25093 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	149 %
Prated	46.00 kW	46.00 kW



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SCOP	4.95	3.93
Tbiv	-17 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	40.40 kW	39.00 kW
COP Tj = -7°C	4.86	3.70
Pdh Tj = +2°C	20.30 kW	19.80 kW
COP Tj = +2°C	5.16	4.19
Pdh Tj = +7°C	20.40 kW	20.00 kW
COP Tj = +7°C	5.22	4.50
Pdh Tj = 12°C	20.40 kW	20.20 kW
COP Tj = 12°C	4.95	4.65
Pdh Tj = Tbiv	40.20 kW	38.40 kW
COP Tj = Tbiv	4.67	3.43
Pdh Tj = TOL	40.00 kW	37.80 kW
COP Tj = TOL	4.50	3.19
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	100 W	100 W
PSB	7 W	7 W
PCK	80 W	80 W

CEN heat pump KEYMARK

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Qhe	22939 kWh	28857 kWh