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Summary of	JAMA Star-15	Reg. No.	012-SC0662-18	
Certificate Holder				
Name	Kaukora	Kaukora		
Address	Tuotekatu 11	Zip	FI-21200	
City	Raisio	Country	Finland	
Certification Body	RISE CERT	RISE CERT		
Name of testing laboratory	AIT	AIT		
Subtype title	JAMA Star-15	JAMA Star-15		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R407c	R407c		
Mass Of Refrigerant	2 kg			

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Model: Star-15

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.42 kW	14.83 kW	
El input	3.63 kW	5.05 kW	
СОР	4.25	2.94	
Indoor water flow rate	3.10 m³/h	1.93 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	43 dB(A)	43 dB(A)	

EN 14825				
Low temperature	Medium temperature			
175 %	138 %			
18.00 kW	18.00 kW			
4.57	3.65			
-6 °C	-5 °C			
-10 °C	-10 °C			
15.40 kW	6.00 kW			
4.52	3.16			
15.60 kW	14.80 kW			
4.70	3.72			
15.70 kW	15.10 kW			
4.82	4.01			
15.80 kW	15.40 kW			
4.73	4.27			
15.50 kW	14.60 kW			
4.55	3.27			
	Low temperature 175 % 18.00 kW 4.57 -6 °C -10 °C 15.40 kW 4.52 15.60 kW 4.70 15.70 kW 4.82 15.80 kW 4.73 15.50 kW			

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





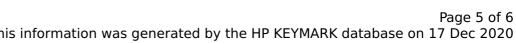
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Pdh Tj = TOL	15.40 kW	14.60 kW
COP Tj = TOL	4.41	2.96
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	60 W	60 W
PSB	7 W	7 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.60 kW	3.40 kW
Annual energy consumption Qhe	8134 kWh	10194 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	

EN 14825			
Low temperature	Medium temperature		
180 %	141 %		
18.00 kW	18.00 kW		
	Low temperature		



	CEN heat pump KEYMARK			
	This	information was ger	erated by the HP KEYM	ARK database on
SCOI	D		4.70	2 72

SCOP	4.70	3.72
Tbiv	-17 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	15.60 kW	14.70 kW
COP Tj = -7°C	4.73	3.60
Pdh Tj = +2°C	15.70 kW	15.00 kW
COP Tj = +2°C	4.85	3.95
Pdh Tj = $+7^{\circ}$ C	15.80 kW	15.30 kW
COP Tj = +7°C	4.84	4.21
Pdh Tj = 12°C	15.80 kW	15.50 kW
COP Tj = 12°C	4.49	4.35
Pdh Tj = Tbiv	15.50 kW	14.60 kW
COP Tj = Tbiv	4.58	3.29
Pdh Tj = TOL	15.40 kW	14.60 kW
COP Tj = TOL	4.41	2.96
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	60 W	60 W
PSB	7 W	7 W
РСК	35 W	35 W



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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.60 kW	3.40 kW
Annual energy consumption Qhe	9454 kWh	11893 kWh