

Page 1 of 6

### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### Login

Summary of	JAMA Star-24	Reg. No.	012-SC0667-18	
Certificate Holder		<u> </u>		
Name	Kaukora			
Address	Tuotekatu 11	Zip	FI-21200	
City	Raisio	Country	Finland	
Certification Body	RISE CERT			
Subtype title	JAMA Star-24	JAMA Star-24		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R407c	R407c		
Mass of Refrigerant	4 kg	4 kg		



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## Model: Star-24

Configure model		
Model name	Star-24	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	23.00 kW	22.00 kW	
El input	4.90 kW	7.12 kW	
СОР	4.65	3.09	

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
$\eta_{s}$	185 %	143 %
Prated	28.00 kW	28.00 kW
SCOP	4.83	3.78
Tbiv	-6 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	23.60 kW	22.20 kW
COP Tj = -7°C	4.70	3.27
Pdh Tj = +2°C	23.80 kW	22.80 kW
COP Tj = +2°C	4.91	3.83
Pdh Tj = +7°C	12.00 kW	11.70 kW
COP Tj = +7°C	5.26	4.31
Pdh Tj = 12°C	12.10 kW	11.80 kW
COP Tj = 12°C	5.26	4.58
Pdh Tj = Tbiv	23.60 kW	22.40 kW
COP Tj = Tbiv	4.73	3.45

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.50 kW	22.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	30 W	30 W
PSB	7 W	7 W
PCK	70 W	70 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.50 kW	6.00 kW
Annual energy consumption Qhe	11996 kWh	15287 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
$\eta_{S}$	193 %	150 %
Prated	28.00 kW	28.00 kW



Page 5 of 6 This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was general		
SCOP	5.03	3.95
Tbiv	-16 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	23.80 kW	22.70 kW
COP Tj = -7°C	4.98	3.73
Pdh Tj = +2°C	12.00 kW	11.60 kW
COP Tj = +2°C	5.28	4.26
Pdh Tj = +7°C	12.10 kW	11.80 kW
$COP Tj = +7^{\circ}C$	5.38	4.57
Pdh Tj = 12°C	12.10 kW	11.90 kW
COP Tj = 12°C	5.08	4.74
Pdh Tj = Tbiv	23.70 kW	22.40 kW
COP Tj = Tbiv	4.78	3.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	23.50 kW	22.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	70 W	70 W



### Page 6 of 6

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.50 kW	6.00 kW
Annual energy consumption Qhe	13740 kWh	17514 kWh