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### This information was generated by the HP KEYMARK database on 7 Jul 2022

#### **Login**

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			
Subtype title	JAMA Star-40	JAMA Star-40		
Heat Pump Type	Brine/Water			
Refrigerant	R407c			
Mass of Refrigerant	3.4 kg			

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# Model: Star-40

Configure model		
Model name	Star-40	
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 14511-4			
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		

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	

## 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	
$\eta_{s}$	190 %	149 %	
Prated	46.00 kW	46.00 kW	
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 = $+7^{\circ}$ C	20.40 kW	20.00 kW	
$COP Tj = +7^{\circ}C$	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	

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 or Pdh Tj = Tdesignh if TOL < Tdesignh	40.00 kW	37.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	3.19
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	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	22939 kWh	28857 kWh

# Average Climate

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

EN 14825			
temperature	Medium tem	Low temperature	
	143 %	182 %	$\eta_{s}$
V	46.00 kW	46.00 kW	Prated
<i>I</i> _	46.00 kW	46.00 kW	Prated





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	<u> </u>	
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
$COP Tj = +7^{\circ}C$	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
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	40.00 kW	37.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	3.19
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	100 W	100 W
PSB	7 W	7 W
РСК	80 W	80 W



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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	19996 kWh	25093 kWh