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

#### **Login**

Summary of	JAMA Star-30	Reg. No.	012-SC0669-18		
Certificate Holder	Certificate Holder				
Name	Kaukora				
Address	Tuotekatu 11	Zip	FI-21200		
City	Raisio	Country	Finland		
Certification Body	RISE CERT				
Subtype title	JAMA Star-30				
Heat Pump Type	Brine/Water				
Refrigerant	R407c				
Mass of Refrigerant	4 kg				

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# Model: Star-30

Configure model		
Model name	Star-30	
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	30.72 kW	29.40 kW	
El input	6.92 kW	10.20 kW	
СОР	4.44	2.90	

## 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
$\eta_{s}$	186 %	144 %
Prated	35.00 kW	35.00 kW
SCOP	4.85	3.80
Tbiv	-18 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	31.00 kW	30.10 kW
COP Tj = -7°C	4.75	3.55
Pdh Tj = +2°C	15.60 kW	15.30 kW
COP Tj = +2°C	5.06	4.04
Pdh Tj = +7°C	15.60 kW	15.40 kW
COP Tj = +7°C	5.14	4.39
Pdh Tj = 12°C	15.60 kW	15.50 kW
COP Tj = 12°C	4.86	4.55
Pdh Tj = Tbiv	30.80 kW	29.60 kW
COP Tj = Tbiv	4.55	3.24

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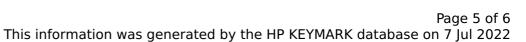
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.80 kW	19.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	60 W	60 W
PSB	7 W	7 W
PCK	70 W	70 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.20 kW	5.70 kW
Annual energy consumption Qhe	17817 kWh	22770 kWh

# Average Climate

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	178 %	137 %
Prated	35.00 kW	35.00 kW





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SCOP	4.65	3.63
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	30.80 kW	29.50 kW
$COPTj = -7^{\circ}C$	4.51	3.15
Pdh Tj = +2°C	30.90 kW	30.20 kW
$COPTj = +2^{\circ}C$	4.69	3.64
Pdh Tj = $+7^{\circ}$ C	15.60 kW	15.30 kW
$COPTj = +7^{\circ}C$	5.02	4.09
Pdh Tj = 12°C	15.60 kW	15.40 kW
COP Tj = 12°C	5.01	4.40
Pdh Tj = Tbiv	30.80 kW	29.60 kW
COP Tj = Tbiv	4.51	3.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.80 kW	29.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.99
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	80 W	80 W
PSB	7 W	7 W
РСК	70 W	70 W



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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.20 kW	5.70 kW
Annual energy consumption Qhe	15539 kWh	19880 kWh