Subtype JAMA Star-8

Certificate Holder	Kaukora
Address	Tuotekatu 11
ZIP	FI-21200
City	Raisio
Country	FI
Certification Body	RISE CERT
Subtype title	JAMA Star-8
Registration number	012-SC0658-18
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.8 kg
Testing laboratory	Austrian Institute of Technology (AIT)

Model Star-8	
Model name	Star-8
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.01 kW	6.36 kW
El input	1.74 kW	2.06 kW
COP	4.60	3.09

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	188 %	141 %
Prated	9.00 kW	8.00 kW
SCOP	4.90	3.73
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.80 kW	6.20 kW
COP Tj = -7°C	4.79	3.28
Pdh Tj = +2°C	8.00 kW	6.90 kW
COP Tj = +2°C	4.99	3.81
Pdh Tj = +7°C	8.20 kW	7.20 kW
COP Tj = +7°C	5.17	4.13
Pdh Tj = 12°C	8.30 kW	7.60 kW
COP Tj = 12°C	5.23	4.41
Pdh Tj = Tbiv	7.80 kW	6.40 kW
COP Tj = Tbiv	4.81	3.44

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	5.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	3.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	15 W	15 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	2.10 kW
Annual energy consumption Qhe	3797 kWh	4433 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	194 %	145 %
Prated	9.00 kW	8.00 kW
SCOP	5.05	3.83
Tbiv	-17 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.00 kW	6.70 kW
COP Tj = -7°C	5.06	3.71
Pdh Tj = +2°C	8.20 kW	7.10 kW
COP Tj = +2°C	5.20	4.07
Pdh Tj = +7°C	8.30 kW	7.50 kW
COP Tj = +7°C	5.26	4.36
Pdh Tj = 12°C	8.30 kW	7.70 kW
COP Tj = 12°C	5.06	4.45
Pdh Tj = Tbiv	7.80 kW	6.40 kW
COP Tj = Tbiv	4.56	3.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.70 kW	5.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	3.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	15 W	15 W
PSB	7 W	7 W

PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	2.10 kW
Annual energy consumption Qhe	4393 kWh	5142 kWh

Model Star-8 RST	
Model name	Star-8 RST
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.51
Heating up time	01:28 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	240 l

EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.51
Heating up time	01:28 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

EN 14511-2 | Heating	Low temperature	Medium temperature
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COP	4.60	3.09

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