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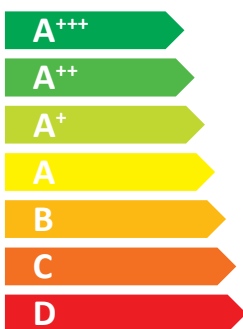
JÄMÄ

JÄMÄ STAR 10 RST



55 °C

35 °C



A++

A+++



42 dB



dB

■ 12
■ **12**
■ 12
kW

■ 13
■ **13**
■ 13
kW



2019

811/2013

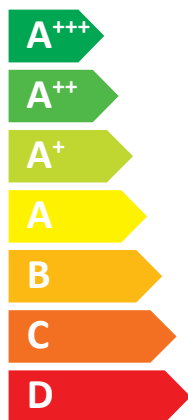


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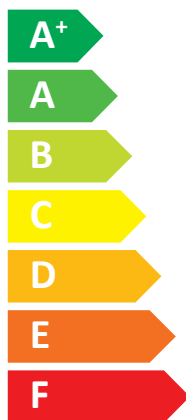
JÄMÄ STAR 10 RST



A++



XL



A



42 dB



dB



■ 12kW
■ **12 kW**
■ 12 kW

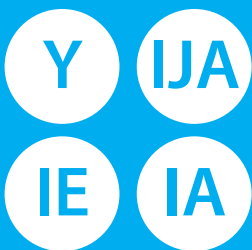
2019

811/2013



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JÄMÄ

JÄMÄ STAR 10 RST



A⁺⁺



A



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

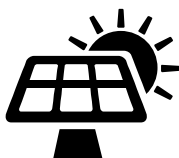
E

F

G

A⁺⁺

+



+



+



+



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F

G

A

Supplier's name:	Kaukora		
Model:	Jämä Star 10 RST		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	A+++	A++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	13	12	kW
Annual energy consumption for space heating, average climate	5466	6347	kWh
Annual electricity consumption for water heating, average climate	1745		kWh
Seasonal space heating energy efficiency, average climate:	184	144	%
Water heating energy efficiency, average climate:	96		%
Sound power level LWA indoors	42		dB
Rated heat output, cold climate:	13	12	kW
Rated heat output, warm climate:	13	12	kW
Annual energy consumption for space heating, cold climate	6351	7269	kWh
Annual electricity consumption for water heating, cold climate	1745		kWh
Annual energy consumption for space heating, warm climate	3655	4236	kWh
Annual electricity consumption for water heating, warm climate	1745		kWh
Seasonal space heating energy efficiency, cold climate:	189	149	%
Water heating energy efficiency, cold climate:	96		%
Seasonal space heating energy efficiency, warm climate:	182	143	%
Water heating energy efficiency, warm climate:	96		%
Sound power level LWA outdoors	-		dB

Data for package fiche

Controller class	VII		
Controller contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	188	148	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	193	153	%
Seasonal space heating energy efficiency of package, warm climate:	186	147	%

Model(s):				Jämä Star 10 RST							
Type of heat source/sink:				Brine-to-water							
Low-temperature heat pump:				No							
Equipped with supplementary heater:				Yes							
Heat pump combination heater:				Yes							
Climate condition:				Average							
Temperature application:				Medium temperature (55 °C)							
Applied standards: EN14825 and EN16147											
Rated heat output			Prated	11,70	kW	Seasonal space heating energy efficiency			η _s	144	%
<i>Declared capacity for part load at outdoor temperature T_j</i>						<i>Declared coefficient of performance for part load at outdoor temperature T_j</i>					
T _j = -7 °C			P _{dH}	9,3	kW	T _j = -7 °C			COP _d	3,25	-
T _j = +2 °C			P _{dH}	9,7	kW	T _j = +2 °C			COP _d	3,85	-
T _j = +7 °C			P _{dH}	9,9	kW	T _j = +7 °C			COP _d	4,23	-
T _j = +12 °C			P _{dH}	10,1	kW	T _j = +12 °C			COP _d	4,65	-
T _j = biv			P _{dH}	9,4	kW	T _j = biv			COP _d	3,42	-
T _j = TOL			P _{dH}	9,2	kW	T _j = TOL			COP _d	3,03	-
T _j = -15 °C (if TOL < -20 °C)			P _{dH}		kW	T _j = -15 °C (if TOL < -20 °C)			COP _d		-
Bivalent temperature			T _{biv}	-5	°C	Operation limit temperature			TOL	-10	°C
Cycling interval capacity for heating			P _{cycH}		kW	Cycling interval efficiency			COP _{cyc}		-
Degradation co-efficient			C _{dH}	1,00	-	temperature			WTOL	65	°C
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode			P _{OFF}	0,002	kW	Rated heat output			P _{sup}	2,5	kW
Thermostat-off mode			P _{TO}	0	kW						
Standby mode			P _{SB}	0,007	kW	Type of energy input			Electric		
Crankcase heater mode			P _{CK}	0,014	kW						
<i>Other items</i>											
Capacity control			fixed			Rated air flow rate, outdoors					m³/h
Sound power level, indoors/outdoors			L _{WA}	42/-	dB	Rated water flow rate, indoor heat exchanger				1,01	m³/h
Annual energy consumption			Q _{HE}	6347	kWh	Rated brine or water flow rate, outdoor heat exchanger				1,80	m³/h
<i>For heat pump combination heater:</i>											
Declared load profile			XL			Water heating energy efficiency			η _{wh}	96	%
Daily electricity consumption			Q _{elec}	7,95	kWh	Daily fuel consumption			Q _{fuel}		kWh
Annual electricity consumption			AEC	1745	kWh	Annual fuel consumption			AFC		GJ
Approved by:											
Contact details			Kaukora Oy P.O Box 21, Tuotekatu 11, 21201 Raisio Finland								