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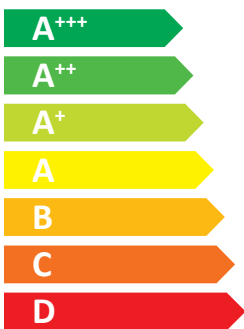
JÄMÄ

JÄMÄ STAR 12 RST



55 °C

35 °C



A++

A+++



45 dB



dB

■ 12
■ **12**
■ 12
kW

■ 14
■ **14**
■ 14
kW



2019

811/2013

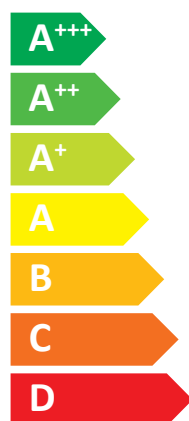


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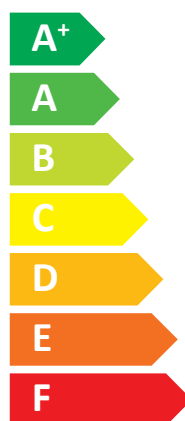


JÄMÄ

JÄMÄ STAR 12 RST



A++



A



45 dB



dB



■ 14 kW
■ **14 kW**
■ 14 kW

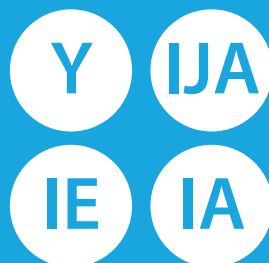
2019

811/2013



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JÄMÄ

JÄMÄ STAR 12 RST



A⁺⁺



A



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

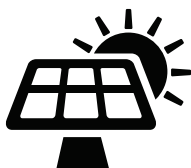
E

F

G

A⁺⁺

+



+



+



+



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F


G

A

Supplier's name:	Kaukora		
Model:	Jämä Star 12 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:	14	14	kW
Annual energy consumption for space heating, average climate	6042	7785	kWh
Annual electricity consumption for water heating, average climate	1745		kWh
Seasonal space heating energy efficiency, average climate:	183	141	%
Water heating energy efficiency, average climate:	96		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	14	14	kW
Rated heat output, warm climate:	14	14	kW
Annual energy consumption for space heating, cold climate	6993	9049	kWh
Annual electricity consumption for water heating, cold climate	1745		kWh
Annual energy consumption for space heating, warm climate	3949	5120	kWh
Annual electricity consumption for water heating, warm climate	1745		kWh
Seasonal space heating energy efficiency, cold climate:	189	145	%
Water heating energy efficiency, cold climate:	96		%
Seasonal space heating energy efficiency, warm climate:	181	138	%
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:	187	144	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	193	148	%
Seasonal space heating energy efficiency of package, warm climate:	185	142	%

Model(s):				Jämä Star 12 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	14,0	kW	Seasonal space heating energy efficiency				ηs	141	%
<i>Declared capacity for part load at outdoor temperature Tj</i>						<i>Declared coefficient of performance for part load at outdoor temperature Tj</i>							
Tj = -7 °C	Pdh	10,8	kW	Tj = -7 °C				COPd	3,30	-			
Tj = +2 °C	Pdh	11,1	kW	Tj = +2 °C				COPd	3,80	-			
Tj = +7 °C	Pdh	11,3	kW	Tj = +7 °C				COPd	4,10	-			
Tj = +12 °C	Pdh	11,5	kW	Tj = +12 °C				COPd	4,40	-			
Tj = biv	Pdh	10,9	kW	Tj = biv				COPd	3,46	-			
Tj = TOL	Pdh	10,7	kW	Tj = TOL				COPd	3,12	-			
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)				COPd		-			
Bivalent temperature		Tbiv	-4,2	°C	Operation limit temperature				TOL	-10	°C		
Cycling interval capacity for heating		Pcych		kW	Cycling interval efficiency				COPcyc		-		
Degradation co-efficient		Cdh	0,99	-	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				Psup	3,3	kW			
Thermostat-off mode	P _{TO}	0,018	kW										
Standby mode	P _{SB}	0,007	kW	Type of energy input				Electric					
Crankcase heater mode	P _{CK}	0,03	kW										
<i>Other items</i>													
Capacity control		fixed		Rated air flow rate, outdoors						m³/h			
Sound power level, indoors/outdoors		L _{WA}	45/-	dB	Rated water flow rate, indoor heat exchanger				1,15	m³/h			
Annual energy consumption		Q _{HE}	7785	kWh	Rated brine or water flow rate, outdoor heat exchanger				2,18	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											