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NIBE

NIBE F2120-12



55 °C

35 °C



A++

A+++



dB



53 dB

■ 10
■ 8
■ 9
kW

■ 9
■ 8
■ 9
kW



2019

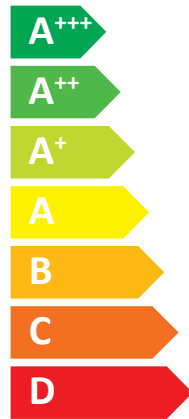
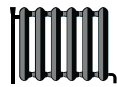
811/2013



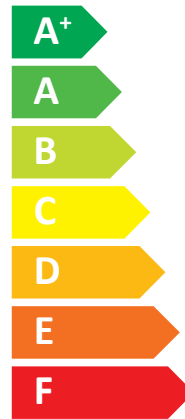
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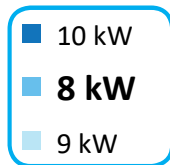
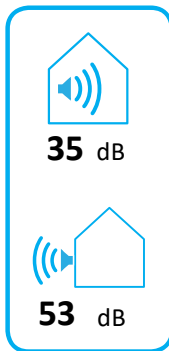
NIBE F2120-12 + VVM320



A++



A



2019

811/2013



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Y

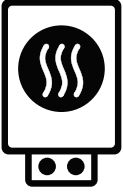




IJA

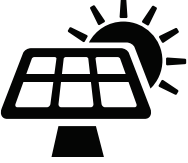
IE


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NIBE


NIBE F2120-12 + VVM320

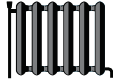











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Supplier's name:	NIBE		
Model:	NIBE F2120-12 + VVM320		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	A+++	A++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	8,0	8,3	kW
Annual energy consumption for space heating, average climate	3409	4529	kWh
Annual electricity consumption for water heating, average climate	1661		kWh
Seasonal space heating energy efficiency, average climate:	190	148	%
Water heating energy efficiency, average climate:	101		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	9,3	9,8	kW
Rated heat output, warm climate:	9,2	9,2	kW
Annual energy consumption for space heating, cold climate	5666	7239	kWh
Annual electricity consumption for water heating, cold climate	1895		kWh
Annual energy consumption for space heating, warm climate	2241	2741	kWh
Annual electricity consumption for water heating, warm climate	1473		kWh
Seasonal space heating energy efficiency, cold climate:	159	130	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	216	176	%
Water heating energy efficiency, warm climate:	114		%
Sound power level LWA outdoors	53		dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	194	152	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	163	134	%
Seasonal space heating energy efficiency of package, warm climate:	220	180	%

Model(s):				NIBE F2120-12 + VVM320							
Type of heat source/sink:				Air-to-water							
Low-temperature heat pump:				No							
Equipped with supplementary heater:				Yes							
Heat pump combination heater:				Yes							
Climate condition:				Average							
Temperature application:				High temperature (55 °C)							
Applied standards: EN14825, EN14511, EN16147 and EN12102											
Rated heat output				Prated	8,3	kW		Seasonal space heating energy efficiency			
								η_s	148	%	
<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	7,3	kW		Tj = -7 °C		COPd	2,39	-	
Tj = +2 °C		Pdh	4,7	kW		Tj = +2 °C		COPd	3,85	-	
Tj = +7 °C		Pdh	2,9	kW		Tj = +7 °C		COPd	4,48	-	
Tj = +12 °C		Pdh	3,3	kW		Tj = +12 °C		COPd	5,30	-	
Tj = biv		Pdh	7,3	kW		Tj = biv		COPd	2,39	-	
Tj = TOL		Pdh	7,8	kW		Tj = TOL		COPd	2,28	-	
Tj = -15 °C (if TOL < -20 °C)		Pdh		kW		Tj = -15 °C (if TOL < -20 °C)		COPd		-	
Bivalent temperature				T _{biv}	-7	°C		Operation limit temperature			
Cycling interval capacity for heating				P _{cyc}		kW		Cycling interval efficiency			
Degradation co-efficient				Cdh	0,99	-		Heating water operating limit			
								WTOL	65	°C	
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode		P _{OFF}	0,025	kW		Rated heat output		P _{sup}	0,5	kW	
Thermostat-off mode		P _{TO}	0,007	kW		Type of energy input					
Standby mode		P _{SB}	0,025	kW		Electric					
Crankcase heater mode		P _{CK}	0,037	kW							
<i>Other items</i>											
Capacity control		variable				Rated air flow rate, outdoors			3400	m ³ /h	
Sound power level, indoors/outdoors		L _{WA}	35/53	dB		Rated water flow rate, indoor heat exchanger			variable	m ³ /h	
Annual energy consumption		Q _{HE}	4529	kWh		Rated brine or water flow rate, outdoor heat exchanger				m ³ /h	
<i>For heat pump combination heater:</i>											
Declared load profile				XL				Water heating energy efficiency			
								η_{wh}			
								101			
								%			
Daily electricity consumption		Q _{elec}	7,56	kWh		Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption		AEC	1661	kWh		Annual fuel consumption		AFC		GJ	
Approved by:											
Contact details				© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							