

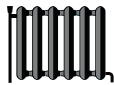


**ENERG**  
енергия · ενεργεια

Y IJA  
IE IA

**NIBE**

NIBE F2120-8



55 °C

35 °C



**A++**

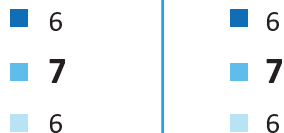
**A++**



dB



**53** dB



kW

kW



2015

811/2013



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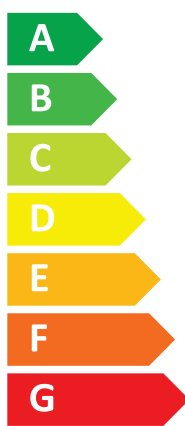
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**NIBE**

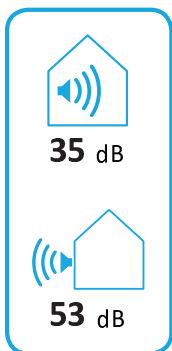
NIBE F2120-8 + VVM320



**A++**



**A**



2015

811/2013



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Y

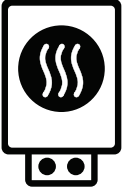




IJA

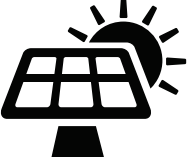
IE


IA


**NIBE**


## NIBE F2120-8 + VVM320

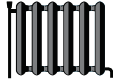











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Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F2120-8 + VVM320</b>		
Temperature application	<b>35</b>	<b>55</b>	°C
Declared load profile for water heating	<b>XL</b>		
Seasonal space heating energy efficiency class, average climate:	<b>A++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:	<b>A</b>		
Rated heat output, average climate:	5,9	6,3	kW
Annual energy consumption for space heating, average climate	2544	3472	kWh
Annual electricity consumption for water heating, average climate	1661		kWh
Seasonal space heating energy efficiency, average climate:	189	147	%
Water heating energy efficiency, average climate:	101		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	6,8	7,4	kW
Rated heat output, warm climate:	5,9	6,3	kW
Annual energy consumption for space heating, cold climate	4182	5524	kWh
Annual electricity consumption for water heating, cold climate	1895		kWh
Annual energy consumption for space heating, warm climate	1452	1939	kWh
Annual electricity consumption for water heating, warm climate	1473		kWh
Seasonal space heating energy efficiency, cold climate:	158	130	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	214	171	%
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:	193	151	%
Seasonal space heating energy efficiency class for package, average climate:	<b>A+++</b>	<b>A+++</b>	%
Seasonal space heating energy efficiency of package, cold climate:	162	134	%
Seasonal space heating energy efficiency of package, warm climate:	218	175	%

<b>Model(s):</b>		<b>NIBE F2120-8 + VVM320</b>									
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:		Medium temperature (55 °C)									
Applied standards: EN14825, EN14511, EN16147 and EN12102											
<b>Rated heat output</b>		Prated	6,3	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	147	%		
<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	5,5	kW	Tj = -7 °C	COPd	2,48	-				
Tj = +2 °C	Pdh	4,1	kW	Tj = +2 °C	COPd	3,80	-				
Tj = +7 °C	Pdh	2,9	kW	Tj = +7 °C	COPd	4,45	-				
Tj = +12 °C	Pdh	3,3	kW	Tj = +12 °C	COPd	5,26	-				
Tj = biv	Pdh	5,5	kW	Tj = biv	COPd	2,48	-				
Tj = TOL	Pdh	5,7	kW	Tj = TOL	COPd	2,34	-				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-				
Bivalent temperature				T <sub>biv</sub>	-7	°C	Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating				P <sub>cyh</sub>		kW	Cycling interval efficiency		COP <sub>cyh</sub>		-
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 <sub>OFF</sub>	0,025	kW	Rated heat output		P <sub>sup</sub>	0,6	kW			
Thermostat-off mode	P <sub>TO</sub>	0,01	kW	Type of energy input		Electric					
Standby mode	P <sub>SB</sub>	0,025	kW								
Crankcase heater mode	P <sub>CK</sub>	0,037	kW								
<i>Other items</i>											
Capacity control		variable		Rated air flow rate, outdoors			2300	m <sup>3</sup> /h			
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/53	dB	Rated water flow rate, indoor heat exchanger			variable	m <sup>3</sup> /h		
Annual energy consumption		Q <sub>HE</sub>	3472	kWh	Rated brine or water flow rate, outdoor heat exchanger				m <sup>3</sup> /h		
<i>For heat pump combination heater:</i>											
<b>Declared load profile</b>		<b>XL</b>		<b>Water heating energy efficiency</b>		$\eta_{wh}$	101	%			
Daily electricity consumption		Q <sub>elec</sub>	7,56	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh		
Annual electricity consumption		AEC	1661	kWh	Annual fuel consumption		AFC		GJ		
<b>Approved by:</b>											
<b>Contact details</b>		<b>© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden</b>									