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Y IJA  
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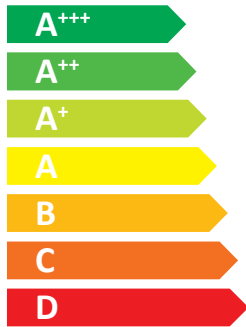


NIBE F2050-10



55 °C

35 °C



**A++**

**A+++**



dB



**53** dB

6  
6  
7  
kW

7  
6  
7  
kW



2019

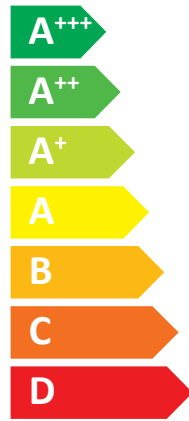
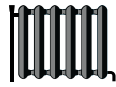
811/2013



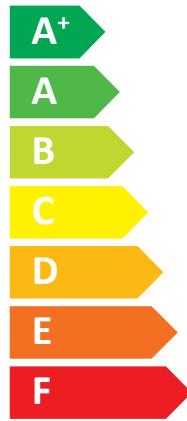
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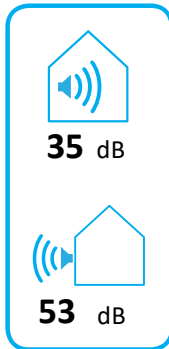
NIBE F2050-10 + VVM S320



**A++**



**A**



2019

811/2013



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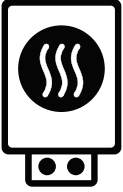




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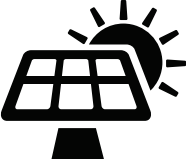
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## NIBE F2050-10 + VVM S320




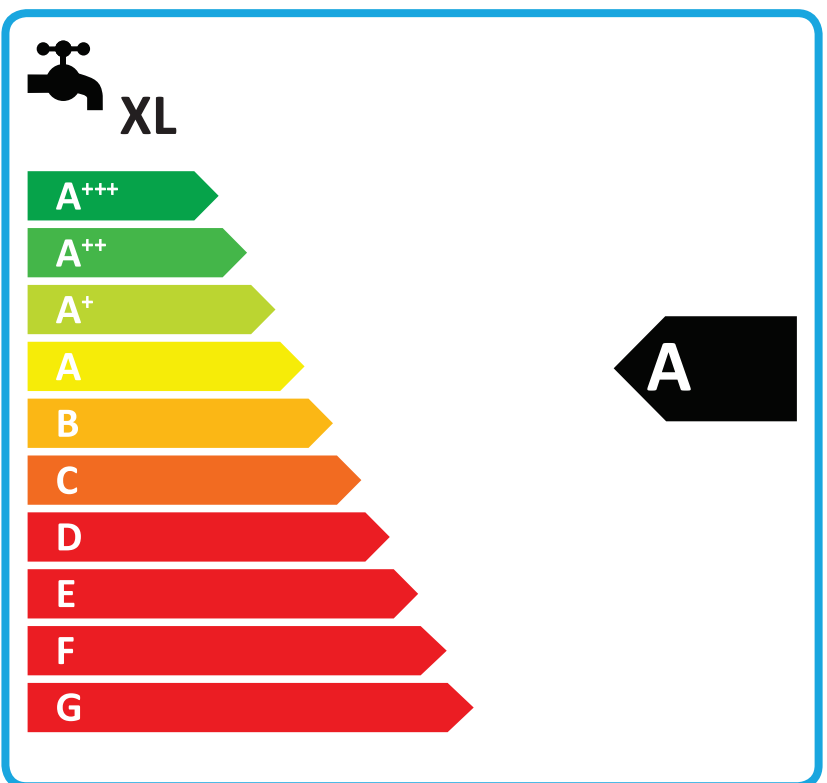
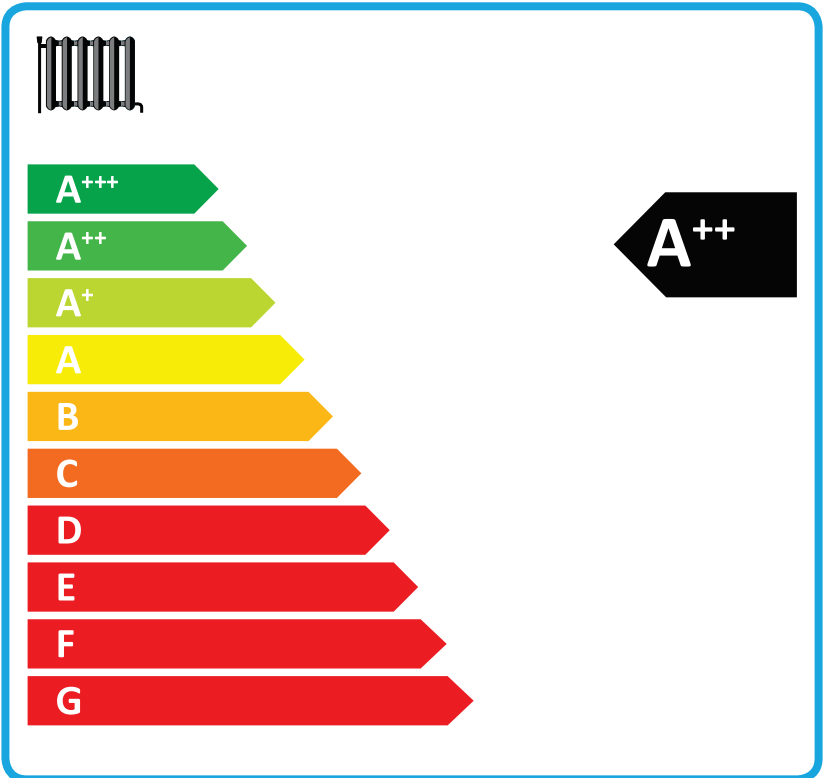



  






  




Supplier's name:	NIBE AB		
Model:	NIBE F2050-10 + VVM S320		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	<b>A+++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:	<b>A</b>		
Rated heat output, average climate:	6	6	kW
Annual energy consumption for space heating, average climate	2834	3961	kWh
Annual electricity consumption for water heating, average climate	1557		kWh
Seasonal space heating energy efficiency, average climate:	181	132	%
Water heating energy efficiency, average climate:	108		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	7	6	kW
Rated heat output, warm climate:	7	7	kW
Annual energy consumption for space heating, cold climate	4059	5204	kWh
Annual electricity consumption for water heating, cold climate	2020		kWh
Annual energy consumption for space heating, warm climate	1379	1964	kWh
Annual electricity consumption for water heating, warm climate	1335		kWh
Seasonal space heating energy efficiency, cold climate:	155	114	%
Water heating energy efficiency, cold climate:	83		%
Seasonal space heating energy efficiency, warm climate:	260	177	%
Water heating energy efficiency, warm climate:	125		%
Sound power level LWA outdoors	53		dB

**Data for package fiche with SMO or VVM**

Controller class	CLASS_VI		
Controller contribution to efficiency	4		%
Seasonal space heating energy efficiency of package, average climate:	185	136	%
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:	159	118	%
Seasonal space heating energy efficiency of package, warm climate:	264	181	%

<b>Model(s):</b>		<b>NIBE F2050-10 + VVM S320</b>									
Type of heat source/sink:		Air/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 - EN16147 - EN12102-1											
<b>Rated heat output</b>		Prated	6,5	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	132	%		
<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	5,8	kW	Tj = -7 °C	COPd	1,98					
Tj = +2 °C	Pdh	3,5	kW	Tj = +2 °C	COPd	3,17					
Tj = +7 °C	Pdh	2,3	kW	Tj = +7 °C	COPd	4,98					
Tj = +12 °C	Pdh	2,2	kW	Tj = +12 °C	COPd	5,50					
Tj = biv	Pdh	5,8	kW	Tj = biv	COPd	1,98					
Tj = TOL	Pdh	5,8	kW	Tj = TOL	COPd	1,69					
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				
Cycling interval capacity for heating				P <sub>cyh</sub>		kW	Cycling interval efficiency		COP <sub>cyh</sub>	-	
Degradation co-efficient				Cdh	0,98	-	Heating water operating limit		WTOL	60	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>							
Off mode	P <sub>OFF</sub>	0,003	kW	Rated heat output		P <sub>sup</sub>	0,7	kW			
Thermostat-off mode	P <sub>TO</sub>	0,008	kW								
Standby mode	P <sub>SB</sub>	0,008	kW	Type of energy input		Electric					
Crankcase heater mode	P <sub>CK</sub>	0,000	kW								
<i>Other items</i>											
Capacity control		Variable		Rated air flow rate, outdoors			3000	m <sup>3</sup> /h			
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/53	dB	Rated water flow rate, indoor heat exchanger			m <sup>3</sup> /h			
Annual energy consumption		Q <sub>HE</sub>	3961	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>		$\eta_{wh}$	108	%			
Daily electricity consumption		Q <sub>elec</sub>	7,409	kWh	Daily fuel consumption		Q <sub>fuel</sub>	kWh			
Annual electricity consumption		AEC	1557	kWh	Annual fuel consumption		AFC	GJ			
<b>Approved by:</b>											
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden									