



**ENERG**  
енергия · ενεργεια



**NIBE**

NIBE F2300-20



55 °C

35 °C



**35** dB



**62** dB



2015

811/2013



**ENERG**  
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Y IJA  
IE IA

**NIBE**

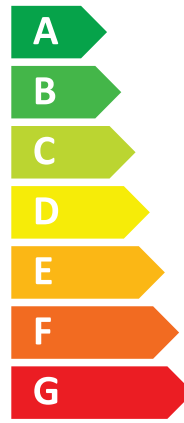
NIBE F2300-20 + VVM500

 55°C

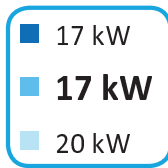
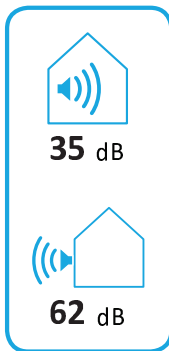
 XXL



**A+**



**A**



2015

811/2013



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Y

IJA

IE

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**NIBE**

## NIBE F2300-20

 35 °C



**A<sup>+</sup>**

**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

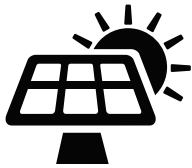
**D**

**E**

**F**

**G**

+



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Y

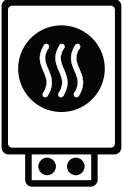


IJA

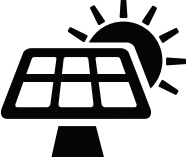
IE


IA


**NIBE**


## NIBE F2300-20 + VVM500






+ 




+ 

+ 



+ 



55 °C


XXL

Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F2300-20+ VVM 500</b>		
Temperature application	<b>35</b>	<b>55</b>	°C
Declared load profile for water heating	<b>XXL</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:	17,5	17,3	kW
Annual energy consumption for space heating, average climate	9651	11453	kWh
Annual electricity consumption for water heating, average climate	2266		kWh
Seasonal space heating energy efficiency, average climate:	147	122	%
Water heating energy efficiency, average climate:	95		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	17,0	16,7	kW
Rated heat output, warm climate:	19,8	19,8	kW
Annual energy consumption for space heating, cold climate	12500	14433	kWh
Annual electricity consumption for water heating, cold climate	2632		kWh
Annual energy consumption for space heating, warm climate	5956	7365	kWh
Annual electricity consumption for water heating, warm climate	2095		kWh
Seasonal space heating energy efficiency, cold climate:	131	111	%
Water heating energy efficiency, cold climate:	82		%
Seasonal space heating energy efficiency, warm climate:	175	141	%
Water heating energy efficiency, warm climate:	103		%
Sound power level LWA outdoors	62		dB

### Data for package fiche

Controller class	VII		
Controller contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	150	125	%
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:	135	115	%
Seasonal space heating energy efficiency of package, warm climate:	178	144	%

<b>Model(s):</b>		<b>NIBE F2300-20+ VVM 500</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 and EN16147												
<b>Rated heat output</b>		Prated	17,3	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	122	%			
<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	13,6	kW	Tj = -7 °C	COPd	2,43	kW					
Tj = +2 °C	Pdh	15,9	kW	Tj = +2 °C	COPd	3,09	kW					
Tj = +7 °C	Pdh	18,0	kW	Tj = +7 °C	COPd	3,70	kW					
Tj = +12 °C	Pdh	20,0	kW	Tj = +12 °C	COPd	4,32	kW					
Tj = biv	Pdh	14,0	kW	Tj = biv	COPd	2,58	kW					
Tj = TOL	Pdh	12,7	kW	Tj = TOL	COPd	2,19	kW					
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW					
Bivalent temperature				T <sub>biv</sub>	-5	°C		Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating				P <sub>cyc</sub>		kW		Cycling interval efficiency		COP <sub>cyc</sub>		-
Degradation co-efficient				C <sub>dh</sub>	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>	0,0015	kW	Rated heat output		P <sub>sup</sub>	4,6	kW				
Thermostat-off mode	P <sub>TO</sub>	0,017	kW	Type of energy input		Electric						
Standby mode	P <sub>SB</sub>	0,015	kW	Rated air flow rate, outdoors			6000	m <sup>3</sup> /h				
Crankcase heater mode	P <sub>CK</sub>	0,032	kW	Rated water flow rate, indoor heat exchanger			2,04	m <sup>3</sup> /h				
<i>Other items</i>				Capacity control		fixed						
Sound power level, indoors/outdoors				L <sub>WA</sub>	35/62	dB		Rated brine or water flow rate, outdoor heat exchanger				m <sup>3</sup> /h
Annual energy consumption				Q <sub>HE</sub>	11453	kWh						
<i>For heat pump combination heater:</i>												
<b>Declared load profile</b>		<b>XXL</b>		<b>Water heating energy efficiency</b>		$\eta_{wh}$	95	%				
Daily electricity consumption		Q <sub>elec</sub>	10,32	kWh		Daily fuel consumption		Q <sub>fuel</sub>	kWh			
Annual electricity consumption		AEC	2266	kWh		Annual fuel consumption		AFC	GJ			
<b>Approved by:</b>												
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden										