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Y IJA  
IE IA

**NIBE**

NIBE F1145-17



55 °C

35 °C



**A++**

**A++**



**43** dB



dB

■ 20  
■ **20**  
■ 20  
kW

■ 20  
■ **20**  
■ 20  
kW



2015

811/2013



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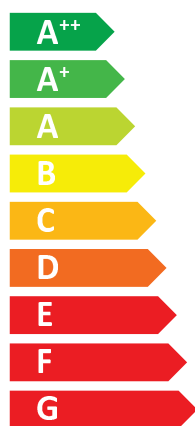
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**NIBE**

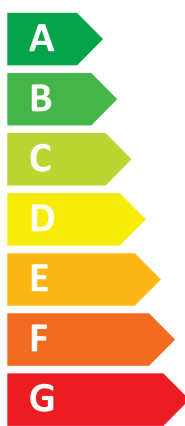
NIBE F1145-17 + VPB500



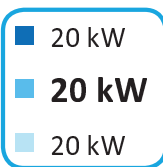
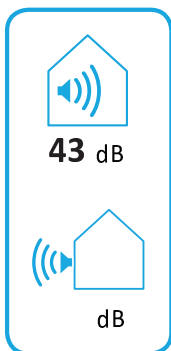
XXL



**A++**



**A**



2015

811/2013



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Y

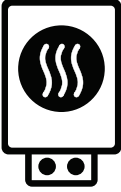




IJA

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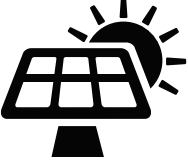
IA


**NIBE**


## NIBE F1145-17 + VPB500








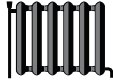



XXL

+ 



+ 

+ 

+ 


XXL

Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F1145-17 (+VPB 500)</b>		
Temperature application	35	55	°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:	20	20	kW
Annual energy consumption for space heating, average climate	9474	11407	kWh
Annual electricity consumption for water heating, average climate	2235		kWh
Seasonal space heating energy efficiency, average climate:	166	137	%
Water heating energy efficiency, average climate:	96		%
Sound power level LWA indoors	43		dB
Rated heat output, cold climate:	20	20	kW
Rated heat output, warm climate:	20	20	kW
Annual energy consumption for space heating, cold climate	11047	13300	kWh
Annual electricity consumption for water heating, cold climate	2235		kWh
Annual energy consumption for space heating, warm climate	6224	7404	kWh
Annual electricity consumption for water heating, warm climate	2235		kWh
Seasonal space heating energy efficiency, cold climate:	171	140	%
Water heating energy efficiency, cold climate:	96		%
Seasonal space heating energy efficiency, warm climate:	164	136	%
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:	170	140	%
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:	174	144	%
Seasonal space heating energy efficiency of package, warm climate:	167	140	%

<b>Model(s):</b>		<b>NIBE F1145-17 (+ VPB 500)</b>							
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									
<b>Rated heat output</b>		Prated	20,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	137	%
<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	16,0	kW		Tj = -7 °C	COPd	3,25	-	
Tj = +2 °C	Pdh	16,2	kW		Tj = +2 °C	COPd	3,70	-	
Tj = +7 °C	Pdh	16,6	kW		Tj = +7 °C	COPd	3,95	-	
Tj = +12 °C	Pdh	16,9	kW		Tj = +12 °C	COPd	4,16	-	
Tj = biv	Pdh	16,1	kW		Tj = biv	COPd	3,35	-	
Tj = TOL	Pdh	16,0	kW		Tj = TOL	COPd	3,08	-	
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-	
Bivalent temperature					Operation limit temperature				
	T <sub>biv</sub>	-4,8	°C			TOL	-10	°C	
Cycling interval capacity for heating					Cycling interval efficiency				
	P <sub>cyh</sub>		kW			COP <sub>cyh</sub>		-	
Degradation co-efficient					Heating water operating limit				
	Cdh	0,99	-			WTOL	65	°C	
<i>Power consumption in modes other than active mode</i>					<i>Supplementary heater</i>				
Off mode					Rated heat output				
	P <sub>OFF</sub>	0,002	kW			P <sub>sup</sub>	4,0	kW	
Thermostat-off mode									
	P <sub>TO</sub>	0,025	kW		Type of energy input				
Standby mode					Electric				
	P <sub>SB</sub>	0,007	kW						
Crankcase heater mode									
	P <sub>CK</sub>	0,035	kW						
<i>Other items</i>									
Capacity control					Rated air flow rate, outdoors				
		fixed							m <sup>3</sup> /h
Sound power level, indoors/outdoors					Rated water flow rate, indoor heat exchanger				
	L <sub>WA</sub>	43/-	dB				1,72		m <sup>3</sup> /h
Annual energy consumption					Rated brine or water flow rate, outdoor heat exchanger				
	Q <sub>HE</sub>	11407	kWh				3,23		m <sup>3</sup> /h
<i>For heat pump combination heater:</i>									
<b>Declared load profile</b>		<b>XXL</b>			<b>Water heating energy efficiency</b>		$\eta_{wh}$	96	%
Daily electricity consumption					Daily fuel consumption				
	Q <sub>elec</sub>	10,18	kWh			Q <sub>fuel</sub>			kWh
Annual electricity consumption					Annual fuel consumption				
	AEC	2235	kWh			AFC			GJ
<b>Approved by:</b>									
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							