



**ENERG**  
енергия · ενεργεια

Y IJA  
IE IA

**NIBE**

NIBE F1145-15



55 °C

35 °C



**A++**

**A++**



**43** dB



dB

■ 18  
■ **18**  
■ 18  
kW

■ 18  
■ **18**  
■ 18  
kW



2015

811/2013



**ENERG**  
енергия · ενέργεια

Y IJA  
IE IA

**NIBE**

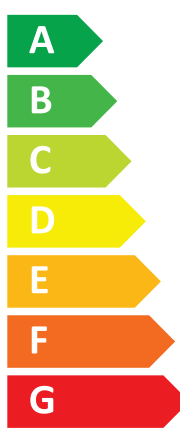
NIBE F1145-15 + VPB500



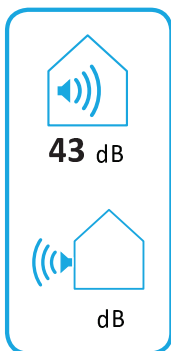
XXL



**A++**



**A**



2015

811/2013



# ENERG

енергия · ενεργεια

Y

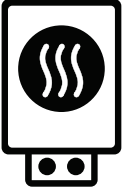




IJA

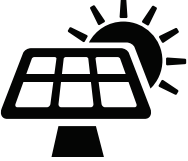
IE


IA


**NIBE**


## NIBE F1145-15 + VPB500

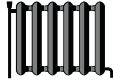











+ 

+ 

+ 


+ 

Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F1145-15 (+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:	18	18	kW
Annual energy consumption for space heating, average climate	8134	10194	kWh
Annual electricity consumption for water heating, average climate	2283		kWh
Seasonal space heating energy efficiency, average climate:	175	138	%
Water heating energy efficiency, average climate:	94		%
Sound power level LWA indoors	43		dB
Rated heat output, cold climate:	18	18	kW
Rated heat output, warm climate:	18	18	kW
Annual energy consumption for space heating, cold climate	9454	11893	kWh
Annual electricity consumption for water heating, cold climate	2283		kWh
Annual energy consumption for space heating, warm climate	5333	6636	kWh
Annual electricity consumption for water heating, warm climate	2283		kWh
Seasonal space heating energy efficiency, cold climate:	180	141	%
Water heating energy efficiency, cold climate:	94		%
Seasonal space heating energy efficiency, warm climate:	172	137	%
Water heating energy efficiency, warm climate:	94		%
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:	178	141	%
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:	183	145	%
Seasonal space heating energy efficiency of package, warm climate:	176	140	%

<b>Model(s):</b>		<b>NIBE F1145-15 (+ 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	18,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	138	%	
<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	14,6	kW	Tj = -7 °C	COPd	3,16	-			
Tj = +2 °C	Pdh	14,8	kW	Tj = +2 °C	COPd	3,72	-			
Tj = +7 °C	Pdh	15,1	kW	Tj = +7 °C	COPd	4,01	-			
Tj = +12 °C	Pdh	15,4	kW	Tj = +12 °C	COPd	4,27	-			
Tj = biv	Pdh	14,6	kW	Tj = biv	COPd	3,27	-			
Tj = TOL	Pdh	14,6	kW	Tj = TOL	COPd	2,96	-			
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-			
Bivalent temperature				T <sub>biv</sub>	-5,1	°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	0,99	-	Heating water operating limit		WTOL	65
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>						
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output		P <sub>sup</sub>	3,4	kW		
Thermostat-off mode	P <sub>TO</sub>	0,022	kW							
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric				
Crankcase heater mode	P <sub>CK</sub>	0,035	kW							
<i>Other items</i>										
Capacity control	fixed			Rated air flow rate, outdoors				m <sup>3</sup> /h		
Sound power level, indoors/outdoors	L <sub>WA</sub>	43/-	dB	Rated water flow rate, indoor heat exchanger			1,57	m <sup>3</sup> /h		
Annual energy consumption	Q <sub>HE</sub>	10194	kWh	Rated brine or water flow rate, outdoor heat exchanger			2,89	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>		$\eta_{wh}$	94	%	
Daily electricity consumption				Q <sub>elec</sub>	10,39	kWh	Daily fuel consumption		Q <sub>fuel</sub>	
Annual electricity consumption				AEC	2283	kWh	Annual fuel consumption		AFC	
<b>Approved by:</b>										
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden								