

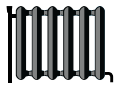


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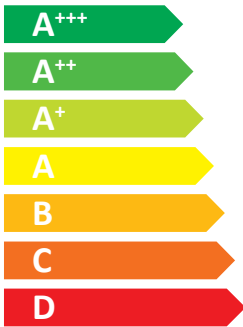
**NIBE**

NIBE F1145-17



55 °C

35 °C



**A++**

**A++**



**43** dB



dB

■ 20  
■ **20**  
■ 20  
kW

■ 20  
■ **20**  
■ 20  
kW



2019

811/2013

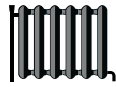


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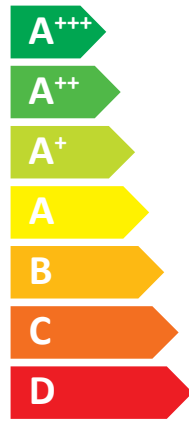
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**NIBE**

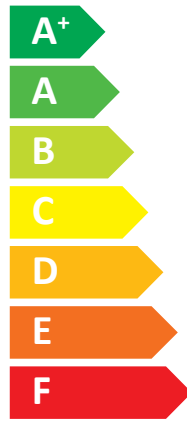
NIBE F1145-17 + VPB500



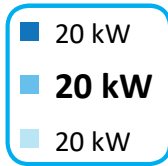
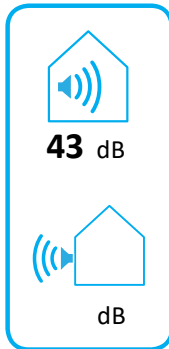
XXL



A++



A



2019

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## NIBE

### NIBE F1145-17 + VPB500

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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>		<b>NIBE</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				T <sub>biv</sub>	-4,8	°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>	4,0	kW		
Thermostat-off mode	P <sub>TO</sub>	0,025	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			1,72	m <sup>3</sup> /h	
Annual energy consumption		Q <sub>HE</sub>	11407	kWh	Rated brine or water flow rate, outdoor heat exchanger			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		Q <sub>elec</sub>	10,18	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh	
Annual electricity consumption		AEC	2235	kWh	Annual fuel consumption		AFC		GJ	
<b>Approved by:</b>										
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden								