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**NIBE** NIBE F1145-10



55 °C

35 °C



**A++**

**A+++**



**42** dB



dB



2019

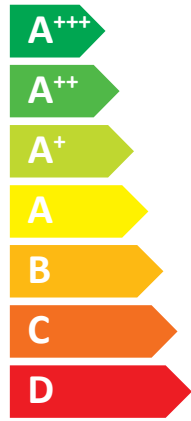
811/2013



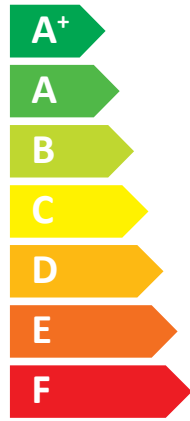
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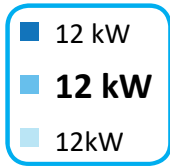
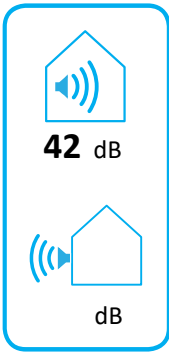
NIBE F1145-10 + VPB300



**A++**



**A**



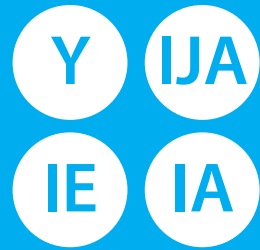
2019

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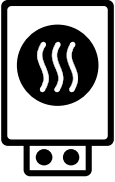







# ENERG

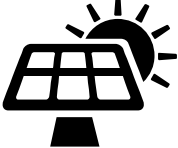
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**NIBE**


## NIBE F1145-10 + VPB300













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Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F1145-10 + VPB300</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:	13	12	kW
Annual energy consumption for space heating, average climate	5466	6347	kWh
Annual electricity consumption for water heating, average climate	1945		kWh
Seasonal space heating energy efficiency, average climate:	184	144	%
Water heating energy efficiency, average climate:	111		%
Sound power level LWA indoors	42		dB
Rated heat output, cold climate:	13	12	kW
Rated heat output, warm climate:	13	12	kW
Annual energy consumption for space heating, cold climate	6351	7269	kWh
Annual electricity consumption for water heating, cold climate	1945		kWh
Annual energy consumption for space heating, warm climate	3655	4236	kWh
Annual electricity consumption for water heating, warm climate	1945		kWh
Seasonal space heating energy efficiency, cold climate:	189	149	%
Water heating energy efficiency, cold climate:	111		%
Seasonal space heating energy efficiency, warm climate:	182	143	%
Water heating energy efficiency, warm climate:	111		%
Sound power level LWA outdoors	-		dB

#### Data for package fiche

Controller class	VII		
Controler contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	188	148	%
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:	193	153	%
Seasonal space heating energy efficiency of package, warm climate:	186	147	%

<b>Model(s):</b>		<b>NIBE F1145-10 + VPB300</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, EN16147 and EN12102												
<b>Rated heat output</b>		Prated	11,70	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	144	%			
<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	9,3	kW	Tj = -7 °C	COPd	3,25	kW					
Tj = +2 °C	Pdh	9,7	kW	Tj = +2 °C	COPd	3,85	kW					
Tj = +7 °C	Pdh	9,9	kW	Tj = +7 °C	COPd	4,23	kW					
Tj = +12 °C	Pdh	10,1	kW	Tj = +12 °C	COPd	4,65	kW					
Tj = biv	Pdh	9,4	kW	Tj = biv	COPd	3,42	kW					
Tj = TOL	Pdh	9,2	kW	Tj = TOL	COPd	3,03	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>cyh</sub>		kW	Cycling interval efficiency			COP <sub>cyh</sub>		-
Degradation co-efficient				Cdh	1,00	-	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>	0,002	kW	Rated heat output		P <sub>sup</sub>	2,5	kW				
Thermostat-off mode	P <sub>TO</sub>	0	kW	Type of energy input		Electric						
Standby mode	P <sub>SB</sub>	0,007	kW									
Crankcase heater mode	P <sub>CK</sub>	0,014	kW									
<i>Other items</i>												
Capacity control				fixed								
Sound power level, indoors/outdoors				L <sub>WA</sub>	42/-	dB	Rated air flow rate, outdoors					
Annual energy consumption				Q <sub>HE</sub>	6347	kWh	Rated water flow rate, indoor heat exchanger		1,01 m <sup>3</sup> /h			
							Rated brine or water flow rate, outdoor heat exchanger		1,80 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>		$\eta_{wh}$	111	%				
Daily electricity consumption		Q <sub>elec</sub>	8,86	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh			
Annual electricity consumption		AEC	1945	kWh	Annual fuel consumption		AFC		GJ			
<b>Approved by:</b>												
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadvägen 5 - 28521 Markaryd - Sweden										