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**NIBE**

NIBE F1145-12 3x230V



55 °C

35 °C



**A++**

**A++**



**45** dB



dB

■ 14  
■ 14  
■ 14  
kW

■ 14  
■ 14  
■ 14  
kW



2015

811/2013



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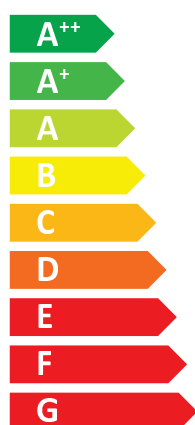
NIBE F1145-12 3x230V + VPB300



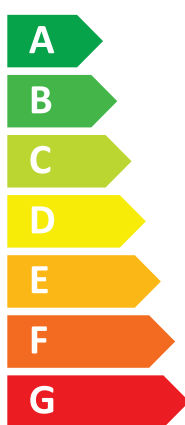
55°C



XXL



**A++**



**A**

45 dB

dB



- 14 kW
- 14 kW
- 14 kW

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**NIBE**

NIBE F1145-12 3x230V

 35 °C



A<sup>++</sup>

A<sup>+++</sup>

A<sup>++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

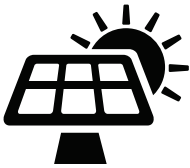
D

E

F

G

+



+



+



+





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Y

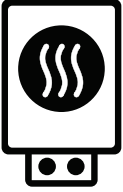




IJA

IE

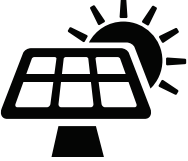
IA


**NIBE**


## NIBE F1145-12 3x230V + VPB300








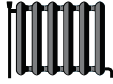
XXL

+ 




+ 

+ 



+ 



55 °C


XXL

Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F1145-12 3x230V (+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:	14	14	kW
Annual energy consumption for space heating, average climate	6185	7971	kWh
Annual electricity consumption for water heating, average climate	2121		kWh
Seasonal space heating energy efficiency, average climate:	179	137	%
Water heating energy efficiency, average climate:	102		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	14	14	kW
Rated heat output, warm climate:	14	14	kW
Annual energy consumption for space heating, cold climate	7161	9267	kWh
Annual electricity consumption for water heating, cold climate	2121		kWh
Annual energy consumption for space heating, warm climate	4041	5239	kWh
Annual electricity consumption for water heating, warm climate	2121		kWh
Seasonal space heating energy efficiency, cold climate:	185	141	%
Water heating energy efficiency, cold climate:	102		%
Seasonal space heating energy efficiency, warm climate:	177	135	%
Water heating energy efficiency, warm climate:	102		%
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:	183	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:	188	144	%
Seasonal space heating energy efficiency of package, warm climate:	181	138	%

<b>Model(s):</b>		<b>NIBE F1145-12 3x230V (+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 and EN16147									
<b>Rated heat output</b>		Prated	14,0	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	10,8	kW	Tj = -7 °C	COPd	3,21	kW		
Tj = +2 °C	Pdh	11,1	kW	Tj = +2 °C	COPd	3,70	kW		
Tj = +7 °C	Pdh	11,3	kW	Tj = +7 °C	COPd	4,00	kW		
Tj = +12 °C	Pdh	11,5	kW	Tj = +12 °C	COPd	4,30	kW		
Tj = biv	Pdh	10,9	kW	Tj = biv	COPd	3,38	kW		
Tj = TOL	Pdh	10,7	kW	Tj = TOL	COPd	3,05	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>	-4,2	°C	Operation limit temperature		
Cycling interval capacity for heating				P <sub>cyh</sub>		kW	Cycling interval efficiency		
Degradation co-efficient				Cdh	0,99	-	Heating water operating limit		
<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>	3,3	kW	
Thermostat-off mode	P <sub>TO</sub>	0,018	kW						
Standby mode	P <sub>SB</sub>	0,007	kW	Type of energy input		Electric			
Crankcase heater mode	P <sub>CK</sub>	0,03	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>	45/-	dB	Rated water flow rate, indoor heat exchanger			1,15		m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	7971	kWh	Rated brine or water flow rate, outdoor heat exchanger			2,16		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>		$\eta_{wh}$	102	%	
				Daily electricity consumption		Q <sub>elec</sub>	9,66	kWh	
				Annual electricity consumption		AEC	2121	kWh	
				Daily fuel consumption		Q <sub>fuel</sub>		kWh	
				Annual fuel consumption		AFC		GJ	
<b>Approved by:</b>									
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							