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IE IA

NIBE

NIBE F1145-10



55 °C

35 °C



A++

A++



45 dB



dB

■ 10
■ **10**
■ 10
kW

■ 12
■ **12**
■ 12
kW



2015

811/2013



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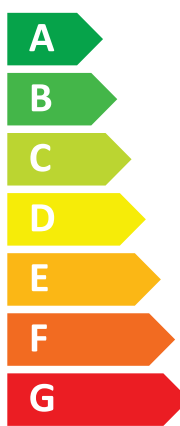
NIBE F1145-10 + VPB300



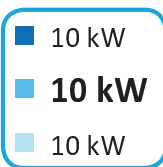
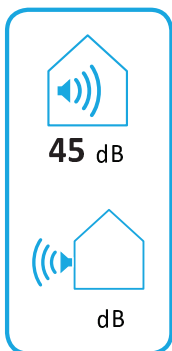
XXL



A++



A



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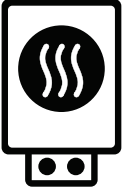




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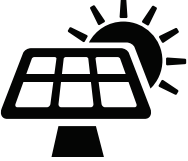
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NIBE


NIBE F1145-10 + VPB300

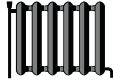











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Supplier's name:	NIBE		
Model:	NIBE F1145-10 (+VPB 300)		
Temperature application	35	55	°C
Declared load profile for water heating	XXL		
Seasonal space heating energy efficiency class, average climate:	A++	A++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	12	10	kW
Annual energy consumption for space heating, average climate	4906	5345	kWh
Annual electricity consumption for water heating, average climate	1945		kWh
Seasonal space heating energy efficiency, average climate:	194	147	%
Water heating energy efficiency, average climate:	111		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	12	10	kW
Rated heat output, warm climate:	12	10	kW
Annual energy consumption for space heating, cold climate	5695	6214	kWh
Annual electricity consumption for water heating, cold climate	1945		kWh
Annual energy consumption for space heating, warm climate	3173	3462	kWh
Annual electricity consumption for water heating, warm climate	1945		kWh
Seasonal space heating energy efficiency, cold climate:	200	151	%
Water heating energy efficiency, cold climate:	111		%
Seasonal space heating energy efficiency, warm climate:	194	146	%
Water heating energy efficiency, warm climate:	111		%
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:	198	150	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	203	154	%
Seasonal space heating energy efficiency of package, warm climate:	198	150	%

Model(s):		NIBE F1145-10 (+VPB 300)									
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											
Rated heat output		Prated	10,0	kW	Seasonal space heating energy efficiency		η_s	147	%		
<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	7,9	kW	Tj = -7 °C	COPd	3,40	-				
Tj = +2 °C	Pdh	8,7	kW	Tj = +2 °C	COPd	3,91	-				
Tj = +7 °C	Pdh	9,2	kW	Tj = +7 °C	COPd	4,25	-				
Tj = +12 °C	Pdh	9,6	kW	Tj = +12 °C	COPd	4,58	-				
Tj = biv	Pdh	8,2	kW	Tj = biv	COPd	3,52	-				
Tj = TOL	Pdh	7,6	kW	Tj = TOL	COPd	3,19	-				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-				
Bivalent temperature				T _{biv}	-5,2	°C	Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating				P _{cyh}		kW	Cycling interval efficiency		COP _{cyh}		-
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 _{OFF}	0,002	kW	Rated heat output		P _{sup}	2,4	kW			
Thermostat-off mode	P _{TO}	0,01	kW	Type of energy input		Electric					
Standby mode	P _{SB}	0,007	kW								
Crankcase heater mode	P _{CK}	0,014	kW								
<i>Other items</i>											
Capacity control				fixed		Rated air flow rate, outdoors				m ³ /h	
Sound power level, indoors/outdoors				L _{WA}	45/-	dB	Rated water flow rate, indoor heat exchanger		0,82	m ³ /h	
Annual energy consumption				Q _{HE}	5345	kWh	Rated brine or water flow rate, outdoor heat exchanger		1,56	m ³ /h	
<i>For heat pump combination heater:</i>											
Declared load profile				XXL		Water heating energy efficiency		η_{wh}	111	%	
Daily electricity consumption				Q _{elec}	8,86	kWh	Daily fuel consumption		Q _{fuel}		kWh
Annual electricity consumption				AEC	1945	kWh	Annual fuel consumption		AFC		GJ
Approved by:											
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden									