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NIBE

NIBE F1145-10

	55 °C	35 °C
	A++	A+++

A+++
A++
A+
A
B
C
D

42 dB

dB

	12	13
	12	**13**
	12	13
	kW	kW

2019

811/2013

ENERG Y IJA
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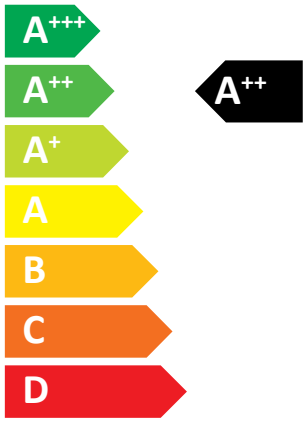
NIBE

NIBE F1145-10 + VPB300

XXL



42 dB

dB

12 kW

12 kW

12kW

2019 **811/2013**

ENERG Y IJA
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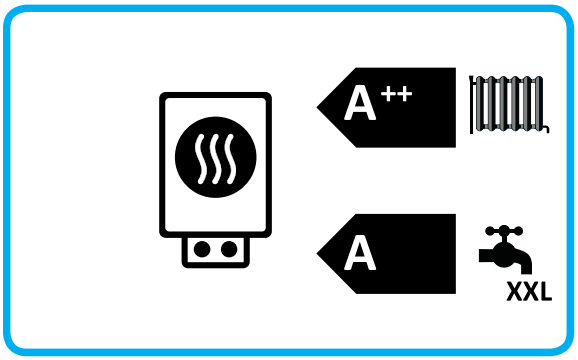
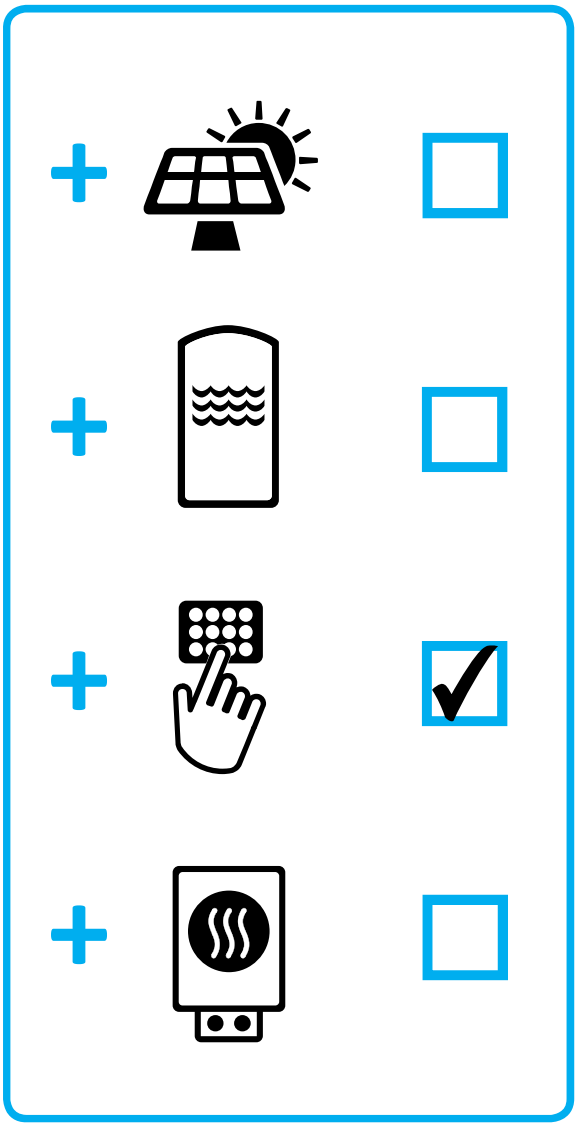
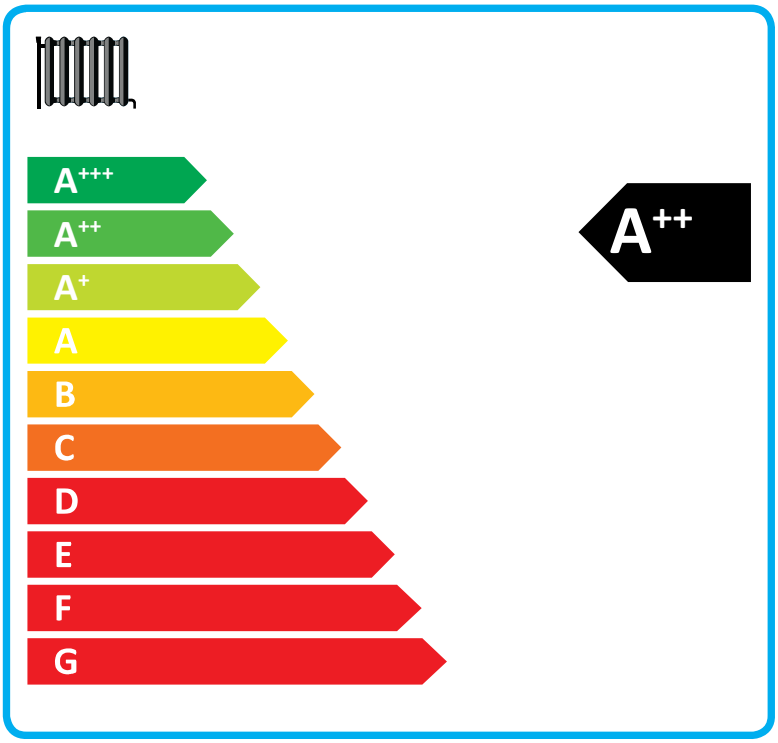
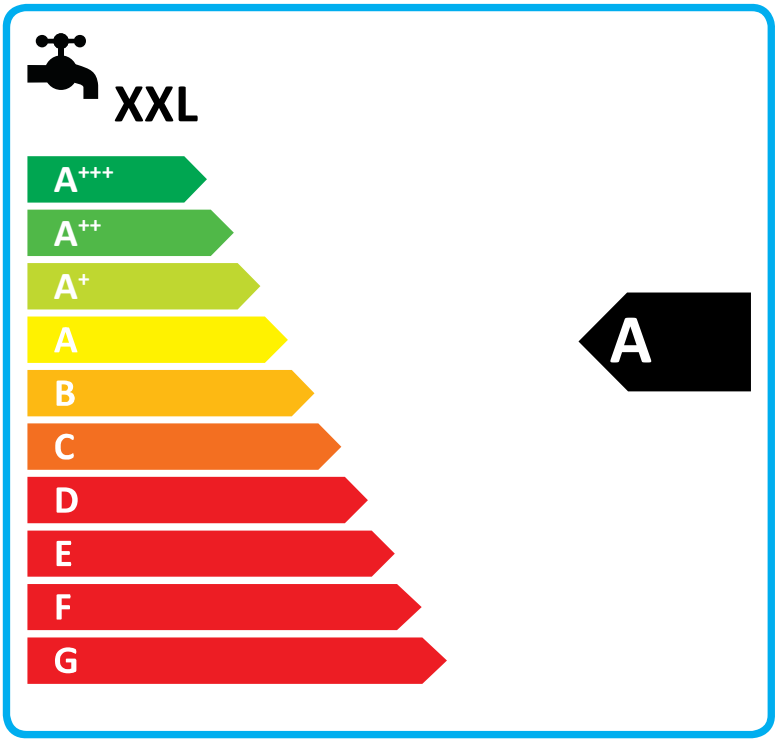
NIBE

NIBE F1145-10 + VPB300









2015

811/2013

Supplier's name:	**NIBE**		
Model:	**NIBE F1145-10 + VPB300**		
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:	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:	**A+++**	**A++**	%
Seasonal space heating energy efficiency of package, cold climate:	193	153	%
Seasonal space heating energy efficiency of package, warm climate:	186	147	%

Model(s):		**NIBE F1145-10 + VPB300**						
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								
Rated heat output	Prated	11,70	kW		**Seasonal space heating energy efficiency**	η_s	144	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
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_{biv}	-5	°C		Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW		Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	1,00	-		Heating water operating limit	WTOL	65	°C
Power consumption in modes other than active mode					*Supplementary heater*			
Off mode	P_{OFF}	0,002	kW		Rated heat output	Psup	2,5	kW
Thermostat-off mode	P_{TO}	0	kW					
Standby mode	P_{SB}	0,007	kW		Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0,014	kW					
Other items								
Capacity control	fixed				Rated air flow rate, outdoors			m^3/h
Sound power level, indoors/outdoors	L_{WA}	42/-	dB		Rated water flow rate, indoor heat exchanger		1,01	m^3/h
Annual energy consumption	Q_{HE}	6347	kWh		Rated brine or water flow rate, outdoor heat exchanger		1,80	m^3/h
For heat pump combination heater:								
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**							