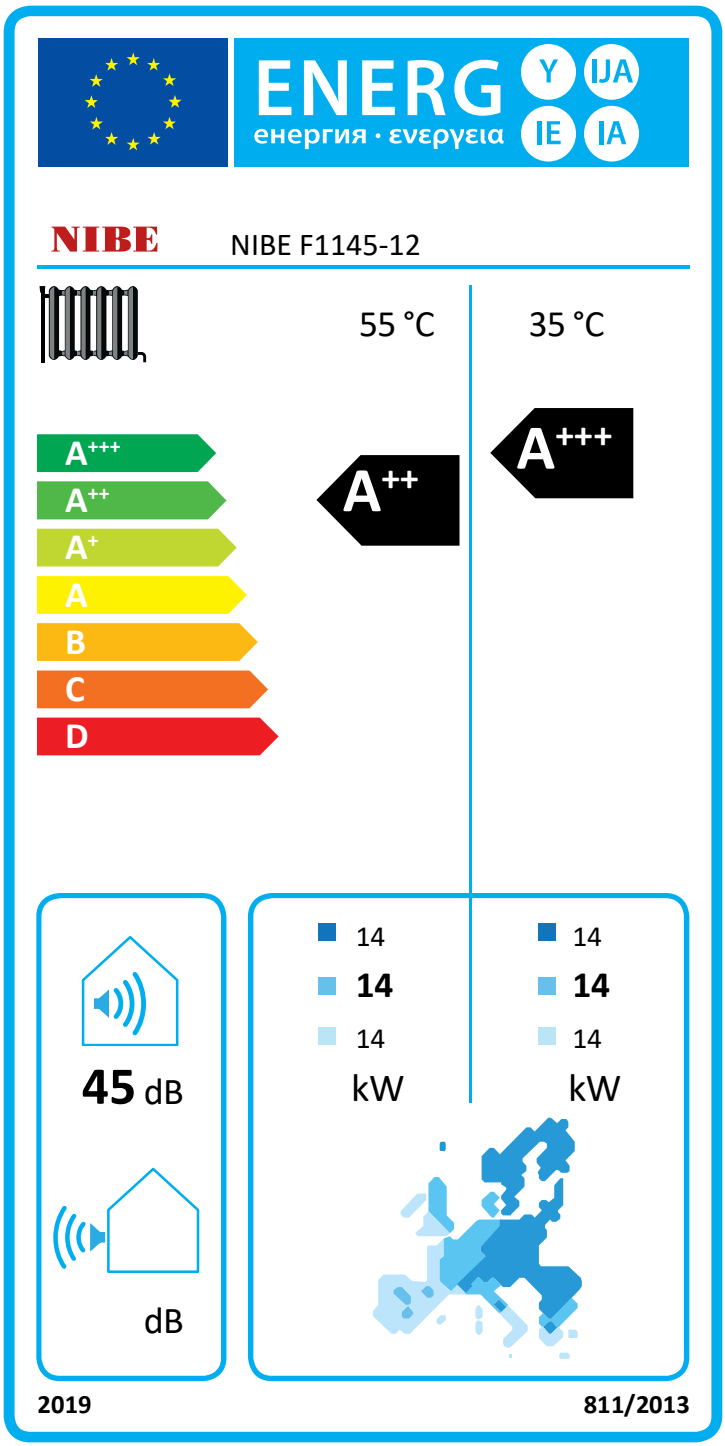
ENERG
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Y
IJA
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IA
NIBE
NIBE F1145-12
55 °C
35 °C
A+++
A++
A+
A
B
C
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45 dB
dB
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14
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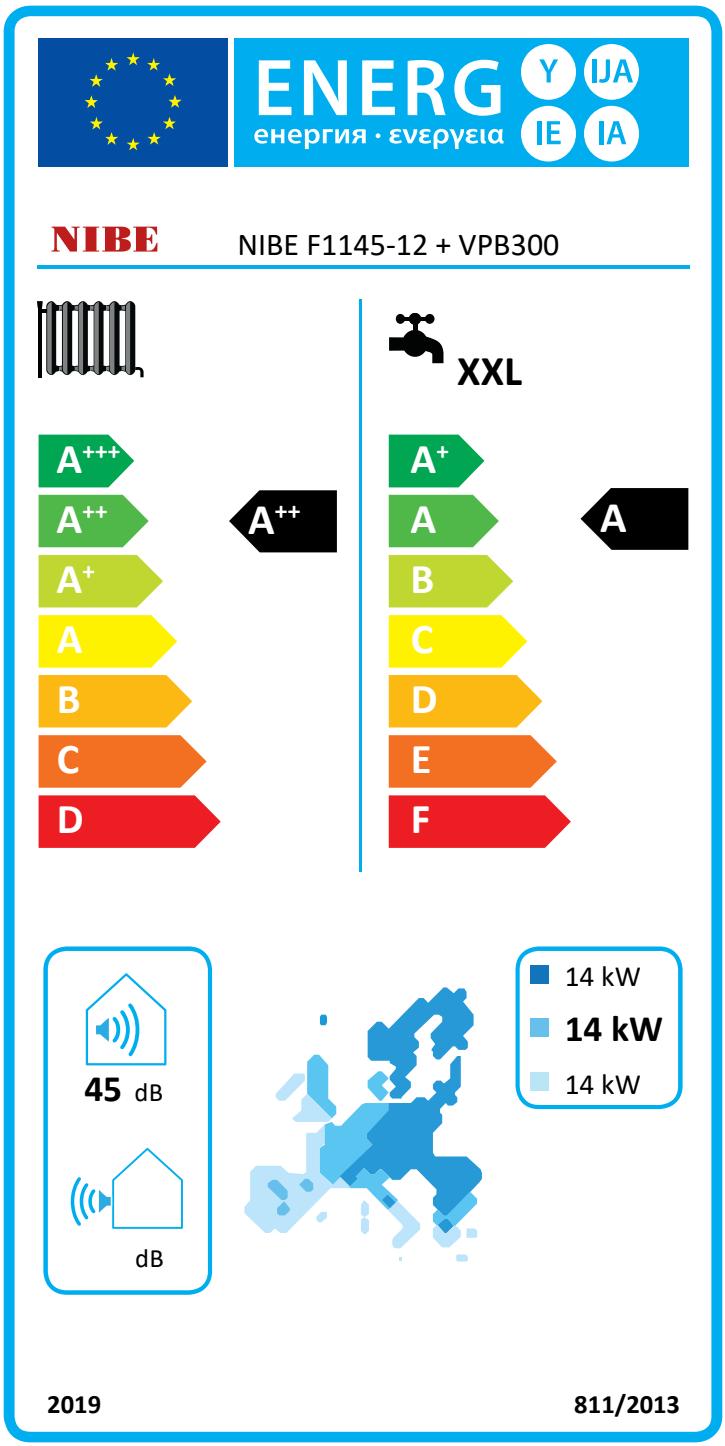
kW
2019
811/2013


ENERG
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Y
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NIBE F1145-12 + VPB300
XXL
A+++
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A++
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dB
14 kW
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2019
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ENERG Y IJA
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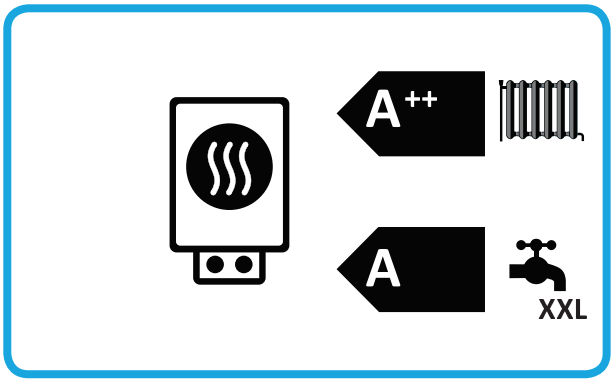
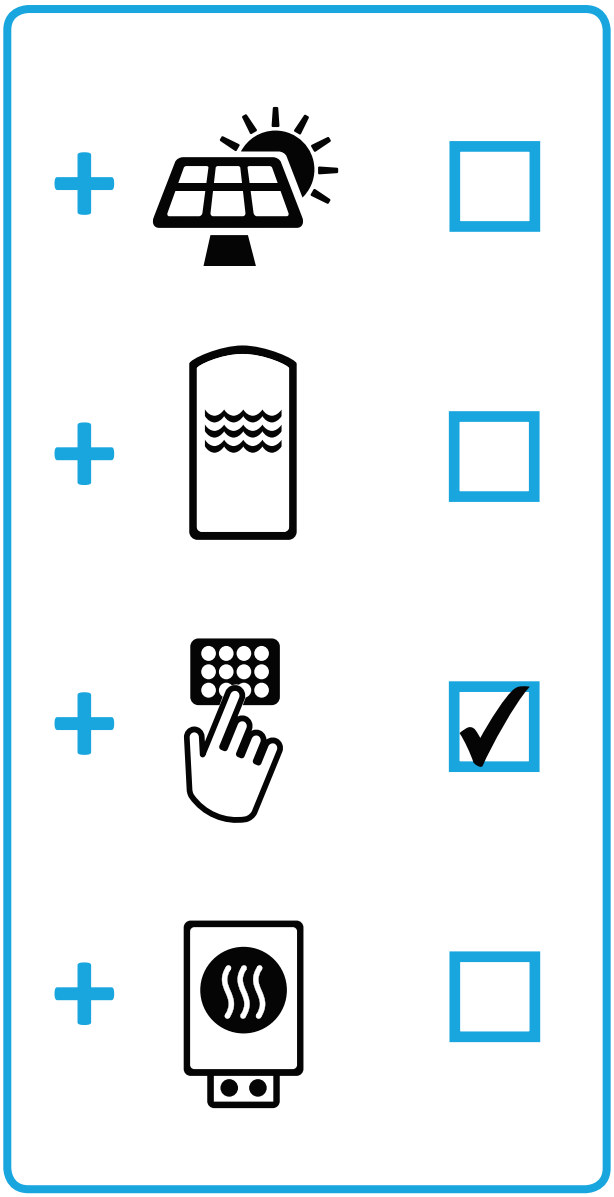
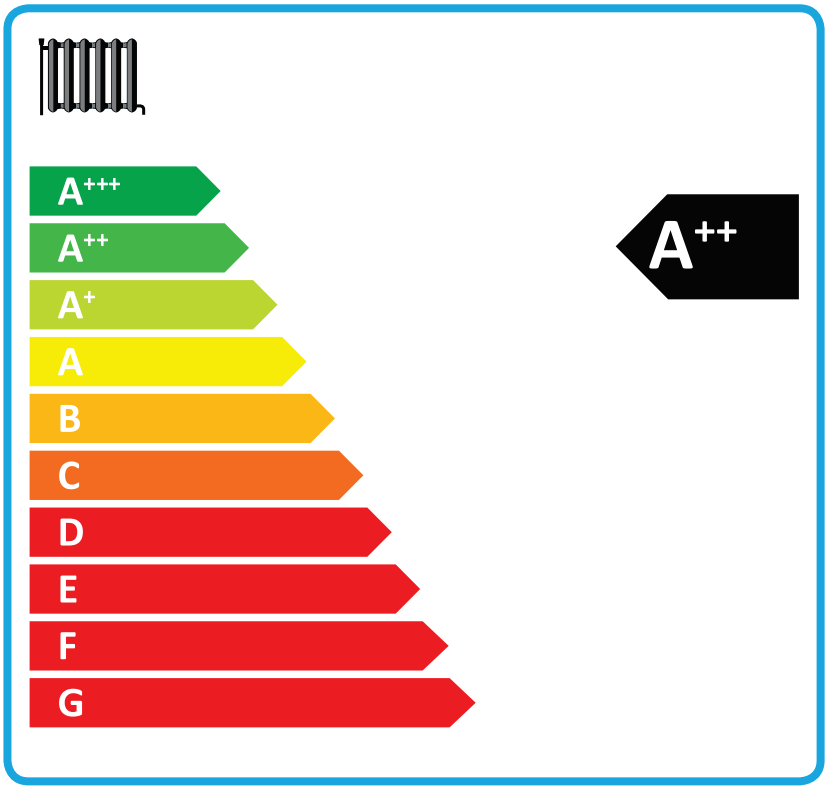
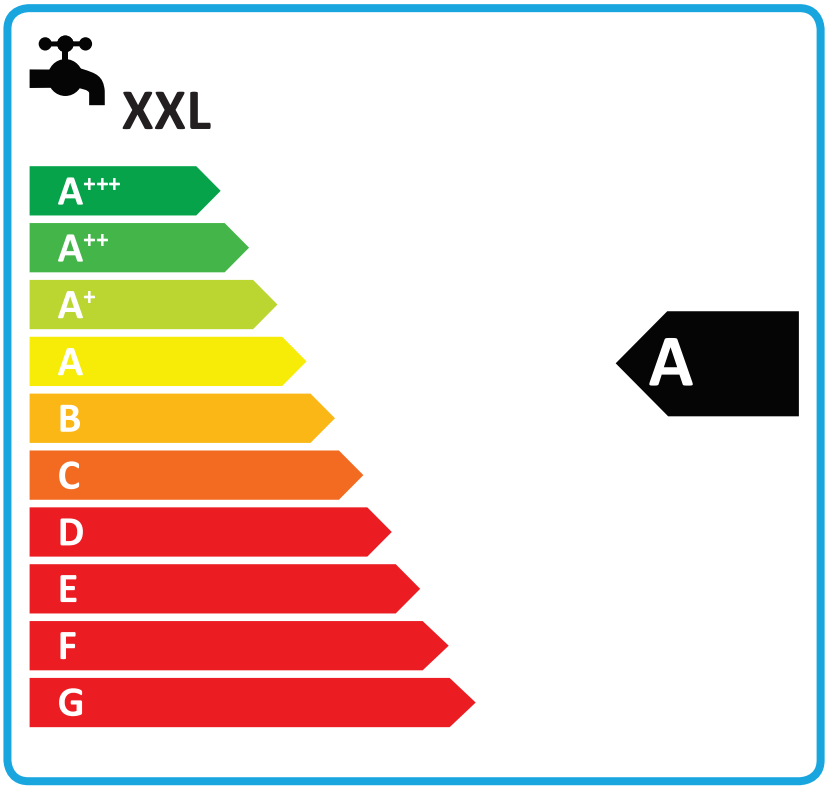
NIBE F1145-12 + VPB300









2015

811/2013

Supplier's name:	**NIBE**		
Model:	**NIBE F1145-12 (+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:	14	14	kW
Annual energy consumption for space heating, average climate	6042	7785	kWh
Annual electricity consumption for water heating, average climate	2121		kWh
Seasonal space heating energy efficiency, average climate:	183	141	%
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	6993	9049	kWh
Annual electricity consumption for water heating, cold climate	2121		kWh
Annual energy consumption for space heating, warm climate	3949	5120	kWh
Annual electricity consumption for water heating, warm climate	2121		kWh
Seasonal space heating energy efficiency, cold climate:	189	145	%
Water heating energy efficiency, cold climate:	102		%
Seasonal space heating energy efficiency, warm climate:	181	138	%
Water heating energy efficiency, warm climate:	102		%
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:	187	144	%
Seasonal space heating energy efficiency class for package, average climate:	**A+++**	**A++**	%
Seasonal space heating energy efficiency of package, cold climate:	193	148	%
Seasonal space heating energy efficiency of package, warm climate:	185	142	%

Model(s):		**NIBE F1145-12 (+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	14,0	kW		**Seasonal space heating energy efficiency**	η_s	141	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
Tj = -7 °C	Pdh	10,8	kW		Tj = -7 °C	COPd	3,30	-
Tj = +2 °C	Pdh	11,1	kW		Tj = +2 °C	COPd	3,80	-
Tj = +7 °C	Pdh	11,3	kW		Tj = +7 °C	COPd	4,10	-
Tj = +12 °C	Pdh	11,5	kW		Tj = +12 °C	COPd	4,40	-
Tj = biv	Pdh	10,9	kW		Tj = biv	COPd	3,46	-
Tj = TOL	Pdh	10,7	kW		Tj = TOL	COPd	3,12	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T_{biv}	-4,2	°C		Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW		Cycling interval efficiency	COPcyc		-
Degradation co-efficient	Cdh	0,99	-		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	3,3	kW
Thermostat-off mode	P_{TO}	0,018	kW					
Standby mode	P_{SB}	0,007	kW		Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0,03	kW					
Other items								
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		1,15	m^3/h
Annual energy consumption	Q_{HE}	7785	kWh		Rated brine or water flow rate, outdoor heat exchanger		2,18	m^3/h
For heat pump combination heater:								
Declared load profile	**XXL**				**Water heating energy efficiency**	η_{wh}	102	%
Daily electricity consumption	Q_{elec}	9,66	kWh		Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	2121	kWh		Annual fuel consumption	AFC		GJ
Approved by:								
Contact details	**© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden**							