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NIBE NIBE F2120-20

	55 °C	35 °C
	A+++	A+++

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

dB

55 dB

	14	13
	12	**11**
	13	13
	kW	kW

2019 811/2013

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Y IJA IE IA

NIBE F2120-20 + VVM500

XXL

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

A+++

A+
A
B
C
D
E
F

A

35 dB

55 dB

14 kW
12 kW
13 kW

2019

811/2013

ENERG Y IJA IE IA

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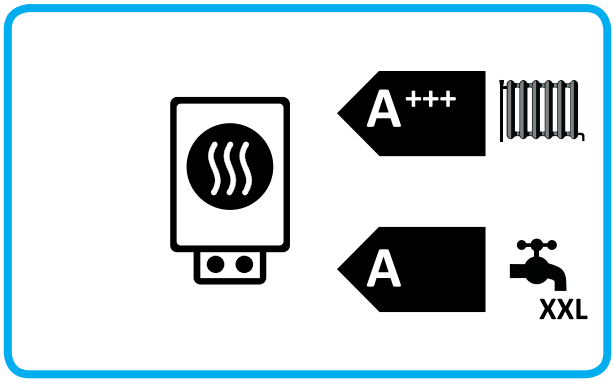
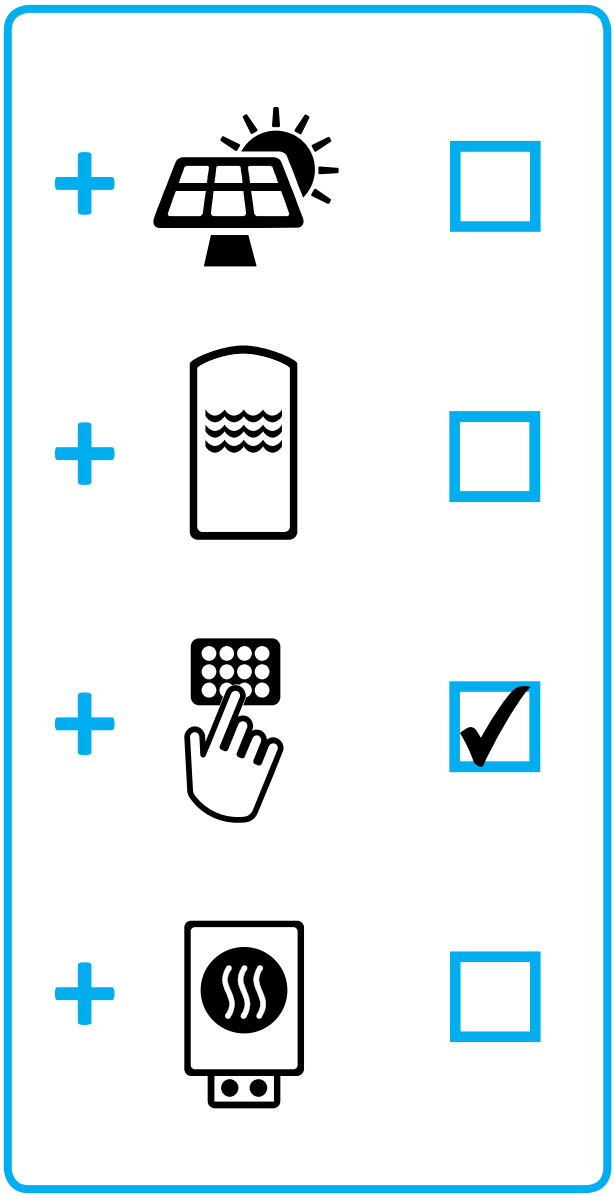
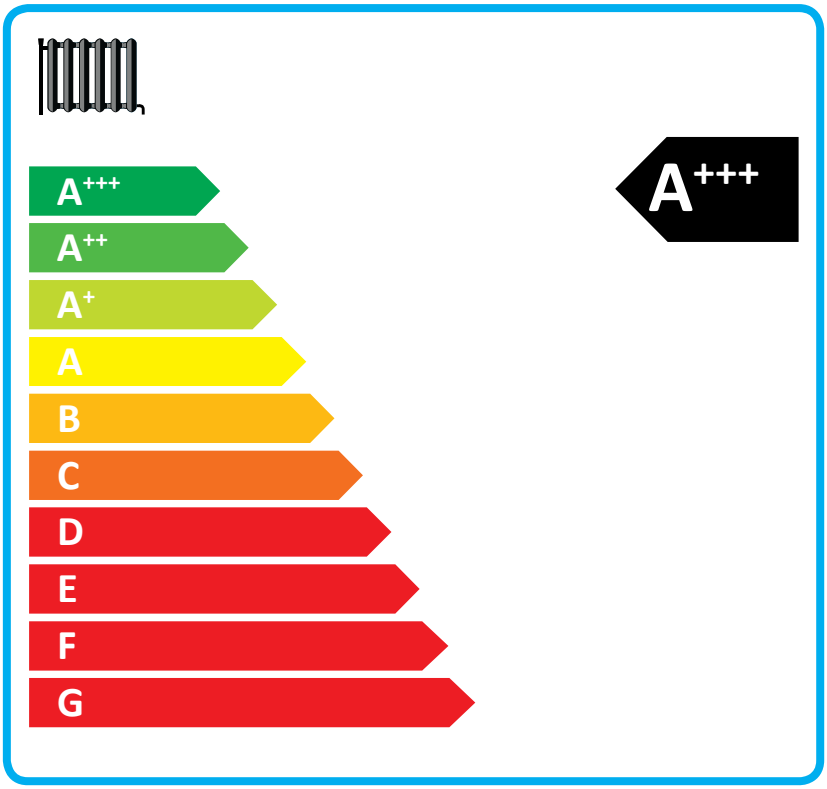
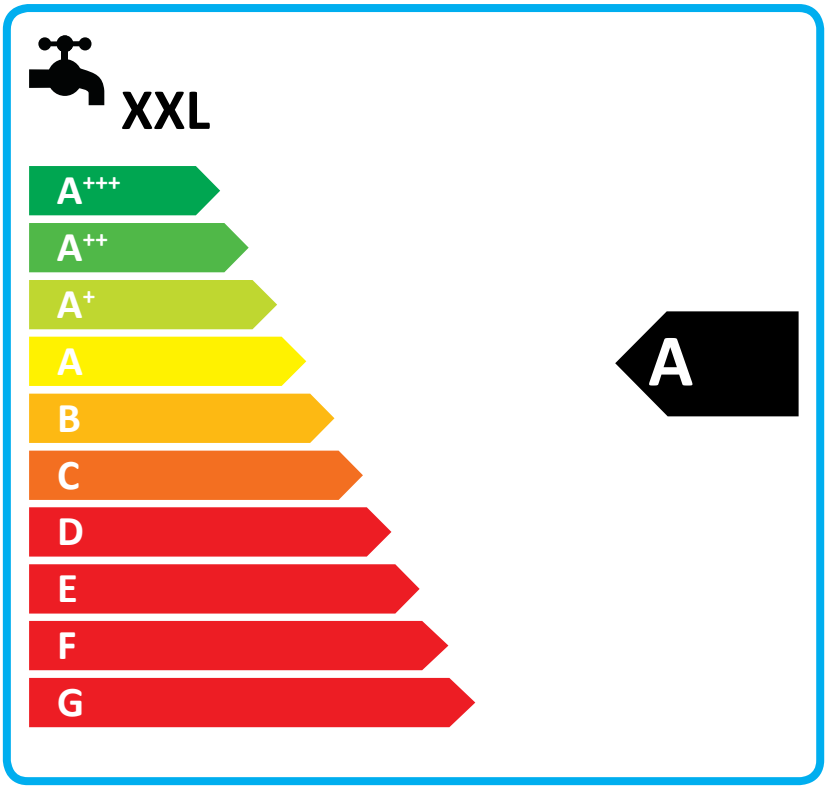
NIBE

NIBE F2120-20 + VVM500









2015

811/2013

Supplier's name:	**NIBE**		
Model:	**NIBE F2120-20 + VVM500**		
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:	11	12,3	kW
Annual energy consumption for space heating, average climate	4502	6524	kWh
Annual electricity consumption for water heating, average climate	2096		kWh
Seasonal space heating energy efficiency, average climate:	199	153	%
Water heating energy efficiency, average climate:	103		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	13,0	14,0	kW
Rated heat output, warm climate:	13,0	13,0	kW
Annual energy consumption for space heating, cold climate	7543	9765	kWh
Annual electricity consumption for water heating, cold climate	2284		kWh
Annual energy consumption for space heating, warm climate	3153	3867	kWh
Annual electricity consumption for water heating, warm climate	1873		kWh
Seasonal space heating energy efficiency, cold climate:	167	138	%
Water heating energy efficiency, cold climate:	94		%
Seasonal space heating energy efficiency, warm climate:	217	177	%
Water heating energy efficiency, warm climate:	115		%
Sound power level LWA outdoors	55		dB

Data for package fiche

Controller class	VI		
Controler contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	203	157	%
Seasonal space heating energy efficiency class for package, average climate:	**A+++**	**A+++**	%
Seasonal space heating energy efficiency of package, cold climate:	171	142	%
Seasonal space heating energy efficiency of package, warm climate:	221	181	%

Model(s):		**NIBE F2120-20 + VVM500**						
Type of heat source/sink:		Air-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	12,3	kW		**Seasonal space heating energy efficiency**	η_s	153	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
Tj = -7 °C	Pdh	10,9	kW		Tj = -7 °C	COPd	2,48	-
Tj = +2 °C	Pdh	6,7	kW		Tj = +2 °C	COPd	3,96	-
Tj = +7 °C	Pdh	5,9	kW		Tj = +7 °C	COPd	4,67	-
Tj = +12 °C	Pdh	6,0	kW		Tj = +12 °C	COPd	5,67	-
Tj = biv	Pdh	10,9	kW		Tj = biv	COPd	2,48	-
Tj = TOL	Pdh	11,6	kW		Tj = TOL	COPd	2,40	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T_{biv}	-7	°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}	0,025	kW		Rated heat output	Psup	0,7	kW
Thermostat-off mode	P_{TO}	0,007	kW					
Standby mode	P_{SB}	0,025	kW		Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0,037	kW					
Other items								
Capacity control	variable				Rated air flow rate, outdoors		4150	m^3/h
Sound power level, indoors/outdoors	L_{WA}	35/55	dB		Rated water flow rate, indoor heat exchanger		variable	m^3/h
Annual energy consumption	Q_{HE}	6524	kWh		Rated brine or water flow rate, outdoor heat exchanger			m^3/h
For heat pump combination heater:								
Declared load profile	**XXL**				**Water heating energy efficiency**	η_{wh}	103	%
Daily electricity consumption	Q_{elec}	9,54	kWh		Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	2096	kWh		Annual fuel consumption	AFC		GJ
Approved by:								
Contact details	**© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden**							