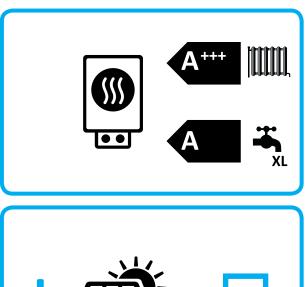


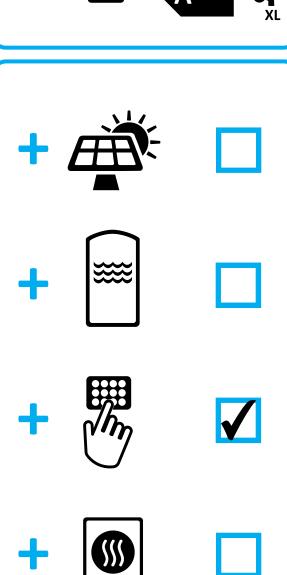


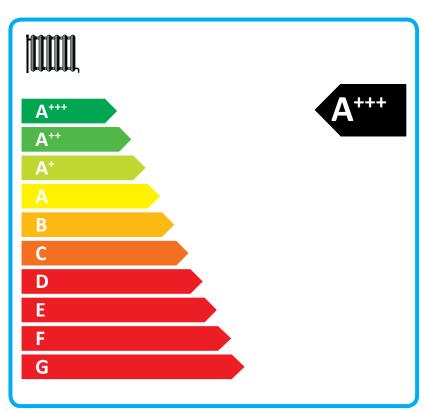
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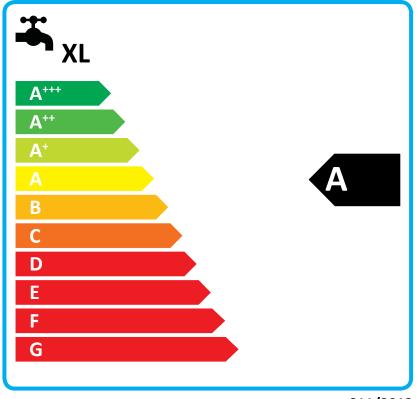


NIBE F2120-16 + VVM S320









Supplier's name:	NIE		
Model:	NIBE F2120-16 + VVM S320		
Temperature application	35	55	°C
Declared load profile for water	XL		
heating			
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	1616		kWh
Seasonal space heating energy efficiency, average climate:	199	153	%
Water heating energy efficiency, average climate:	104		%
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	1758		kWh
Annual energy consumption for space heating, warm climate	3153	3867	kWh
Annual electricity consumption for water heating, warm climate	1448		kWh
Seasonal space heating energy efficiency, cold climate:	167	138	%
Water heating energy efficiency, cold climate:	95		%
Seasonal space heating energy efficiency, warm climate:	217	177	%
Water heating energy efficiency, warm climate:	116		%
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 F2120-16 + VVM		
/pe 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: EN14925 and EN16147		



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Applied standards: EN14825 and EN16147	/ 	1	1 1				
Rated heat output	Prated	12,3	kW	Seasonal space heating energy efficiency	η _s	153	%
Declared capacity for part load at outdoor tem	perature Tj			Declared coefficient of performance for part I	oad at outdo	oor temperat	ure 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	m³/h
Sound power level, indoors/outdoors	L _{WA}	35/55	dB	Rated water flow rate, indoor heat exchanger		variable	m³/h
Annual energy consumption	Q _{HE}	6524	kWh	Rated brine or water flow rate, outdoor heat exchanger			m³/h
For heat pump combination heater:		ı		•			
Declared load profile		XL		Water heating energy efficiency	η_{wh}	104	%
	Ι ο		1344		I 0	I	1111
Daily electricity consumption	Q _{elec}	7,36	kWh	Daily fuel consumption	Q _{fuel}		kWh
Annual electricity consumption	AEC	1616	kWh	Annual fuel consumption	AFC		GJ
Approved by:							
Contact details	© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden						