



ENERG Y UA ΕΝΕΡγεια ΙΕ ΙΑ



NIBE F2120-16 + VVM500

35 °C























 A^+

A

B

C

D

Ε

F

G

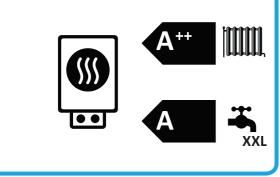


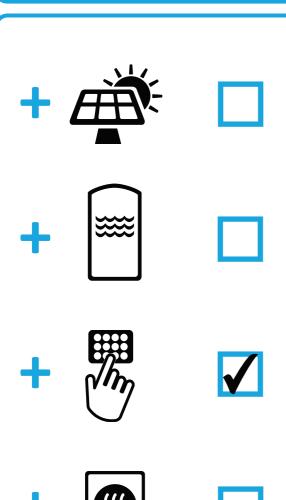


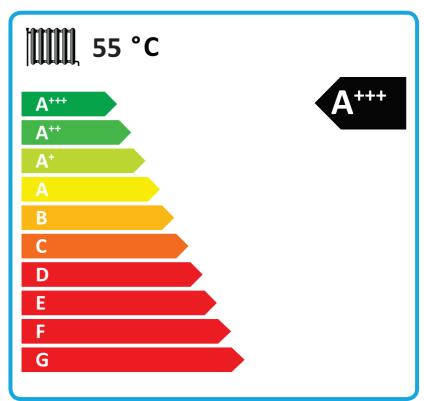
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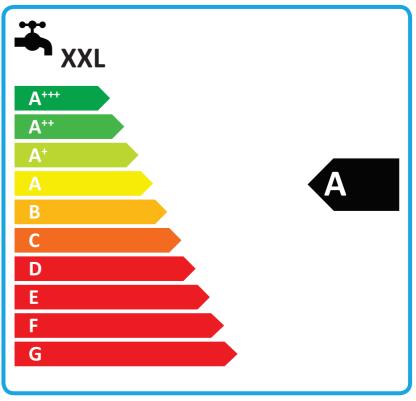


NIBE F2120-16 + VVM500









Model: Temperature application Temperature application Declared load profile for water heating Seasonal space heating energy efficiency class, average climate: Water heating energy efficiency class, average climate: Rated heat output, average climate: Annual energy consumption for space heating, average climate Seasonal space heating energy efficiency, average climate Annual electricity consumption for water heating, average climate Seasonal space heating energy efficiency, average climate Seasonal space heating energy efficiency, average climate: Water heating energy efficiency, average climate Seasonal space heating energy efficiency, average climate: Water heating energy efficiency, average climate: Sound power level LWA indoors Rated heat output, cold climate: Annual energy consumption for space heating, cold climate Annual energy consumption for space heating, cold climate Annual energy consumption for space heating, warm climate Annual energy consumption for space heating, warm climate Annual energy consumption for space heating, warm climate Annual energy consumption for space heating energy efficiency, cold climate: Water heating, warm climate Water heating, warm climate Water heating energy efficiency, cold climate: Water heating energy efficiency, warm climate: Water heating energy efficiency, warm climate: Water heating energy efficiency, warm climate: Sound power level LWA outdoors Mater heating energy efficiency, warm climate: Sound power level LWA outdoors Mater heating energy efficiency, warm climate: Sound power level LWA outdoors Mater heating energy efficiency, warm climate: Sound power level LWA outdoors Mater heating energy efficiency, warm climate: Sound power level LWA outdoors Mater heating energy efficiency, warm climate: Sound power level LWA outdoors	Supplier's name:	N		
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Water heating energy efficiency, warm climate: 115 %		217	177	%
warm climate: "115 %				
		115		%
	Sound power level LWA outdoors		dB	

Data for package fiche

Controller class	V		
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 + 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: High temperature (55			
	. =		



Heat pump combination heater:				Yes			1
Climate condition:				erage			
Temperature application:				erature (55 °C)			
Applied standards: EN14825, EN14511, EN	N16147 and	EN12102			1		
				Seasonal space heating energy	_		
Rated heat output	Prated	12,3	kW	efficiency	η_{s}	153	%
Declared capacity for part load at outdoor temp	ooraturo Ti			Declared coefficient of performance for per	t load at outde	or tomporat	uro Ti
Ti = -7 °C	Pdh	10,9	kW	Declared coefficient of performance for part load at outdoor temperature T_j $T_j = -7 ^{\circ}C$ $COPd$ 2,48			ure ij -
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	6,5	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				Supplementary heater			
Off mode	P _{OFF}	0,025	kW	Rated heat output	Psup	0,7	kW
Thermostat-off mode	P _{TO}	0,007	kW		1		
Standby mode	P_{SB}	0,025	kW	Type of energy input Electric			
Crankcase heater mode	P_{CK}	0,037	kW				
Other items							
Other items Capacity control		variable		Rated air flow rate, outdoors		4150	m³/h
capacity control				Rated water flow rate, indoor heat		1130	,
Sound power level, indoors/outdoors	L _{WA}	35/53	dB	exchanger		variable	m³/h
, ,	WA	•		Rated brine or water flow rate,			
Annual energy consumption	Q_{HF}	6524	kWh	outdoor heat exchanger			m³/h
Annual chergy consumption	Q _{HE}	0324	KVVII	outdoor fleat exchanger			,
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:	0				,		
Contact details	© NIBF F	nergy Sys	tems - B	ox 14 - Hannabadsvägen 5 - 28521 M	arkarvd - S	Sweden	