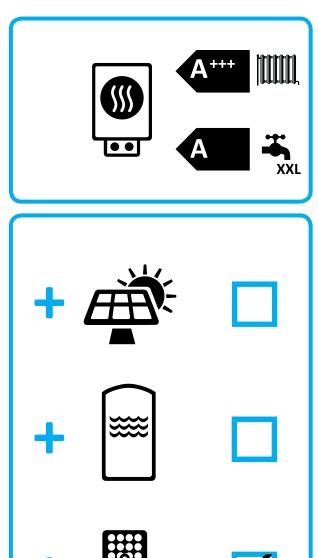




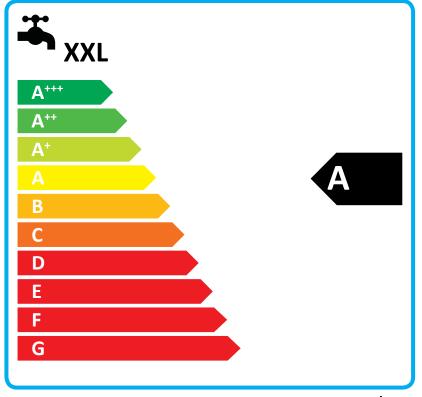
ENERG Y UA EHEPΓИЯ · ενεργεια (Ε) (ΙΑ)



NIBE F2120-20 + VVM500







Supplier's name:	NIE		
Model:	NIBE F2120-20 + VVM500		
Temperature application	35 55		°C
Declared load profile for water	XX	<u></u>	
heating	^/	\L 	
Seasonal space heating energy	A+++	A+++	
efficiency class, average climate:	A···	A	
Water heating energy efficiency	Δ		
class, average climate:			
Rated heat output, average climate:	11	12,3	kW
Annual energy consumption for	4502	6524	kWh
space heating, average climate	4302	0324	KVVII
Annual electricity consumption for	20	06	kWh
water heating, average climate	20	90	KVVII
Seasonal space heating energy	400	450	0/
efficiency, average climate:	199	153	%
Water heating energy efficiency,	102		%
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	7540	0765	Is\A/h
space heating, cold climate	7543	9765	kWh
Annual electricity consumption for	2284		kWh
water heating, cold climate	2284		KVVII
Annual energy consumption for	3153	3867	kWh
space heating, warm climate	3133	3007	KVVII
Annual electricity consumption for	1873		kWh
water heating, warm climate	107.5		IXVVII
Seasonal space heating energy	167	138	%
efficiency, cold climate:			
Water heating energy efficiency,	94		%
cold climate:	<u> </u>		
Seasonal space heating energy efficiency, warm climate:	217	177	%
Water heating energy efficiency,	L		
warm climate:	115		%
Sound power level LWA outdoors	5	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 F2120-20 + 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, EN1400E and EN16147	-		



Temperature application:		Me	dium te	nperature (55 °C)			
Applied standards: EN14825 and EN1614	7	-					
				Seasonal space heating energy			
Rated heat output	Prated	12,3	kW	efficiency	η_{s}	153	%
Declared capacity for part load at outdoor tem			T	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	m³/h
· ,				Rated water flow rate, indoor heat			
Sound power level, indoors/outdoors	L _{WA}	35/55	dB	exchanger		variable	m³/h
				Rated brine or water flow rate,			
Annual energy consumption	Q _{HE}	6524	kWh	outdoor heat exchanger			m³/h
For heat pump combination heater:	•		•	<u> </u>			
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:							
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