

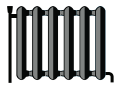


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NIBE

NIBE F2120-20



55 °C

35 °C



A++

A++



dB



53 dB

■ 14
■ 12
■ 13

kW

■ 13
■ 11
■ 13

kW



2015

811/2013



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Y IJA
IE IA

NIBE

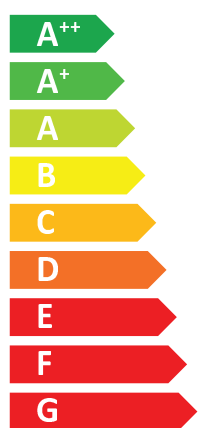
NIBE F2120-20 + VVM500



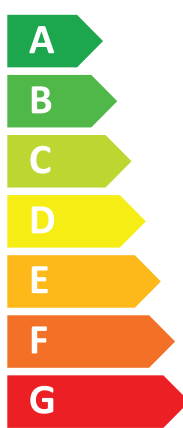
55°C



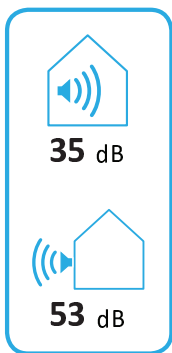
XXL



A++



A



2015

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Y

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NIBE

NIBE F2120-20 + VVM500

 35 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

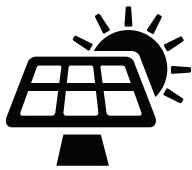
D

E

F

G

+



+



+



+





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Y

IJA

IE

IA

NIBE

NIBE F2120-20 + VVM500

A⁺⁺

A

XXL

+

+

+

+

55 °C

A⁺⁺⁺


XXL

A

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:	11,0	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	53		dB

Data for package fiche

Controller class	VI		
Controller 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:				High temperature (55 °C)							
Applied standards: EN14825, EN14511, EN16147 and EN12102											
Rated heat output				Prated	12,3	kW		Seasonal space heating energy efficiency			
								η_s	153	%	
<i>Declared capacity for part load at outdoor temperature Tj</i>						<i>Declared coefficient of performance for part load at outdoor temperature Tj</i>					
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	6,5	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			
Cycling interval capacity for heating				P _{cyh}		kW		Cycling interval efficiency			
Degradation co-efficient				Cdh	0,99	-		Heating water operating limit			
								TOL	-10	°C	
								COP _{cyh}		-	
								WTOL	65	°C	
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode		P _{OFF}	0,025	kW		Rated heat output		P _{sup}	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							
<i>Other items</i>											
Capacity control		variable				Rated air flow rate, outdoors			4150	m ³ /h	
Sound power level, indoors/outdoors		L _{WA}	35/53	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	
<i>For heat pump combination heater:</i>											
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							