

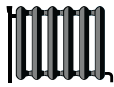


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Y IJA
IE IA

NIBE

NIBE F2120-12



55 °C

35 °C



A++

A++



dB



53 dB

10

8

9

kW

9

8

9

kW



2015

811/2013

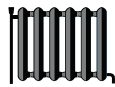


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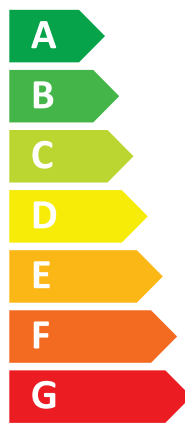
NIBE F2120-12 + VVM320



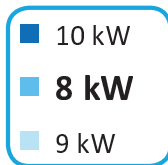
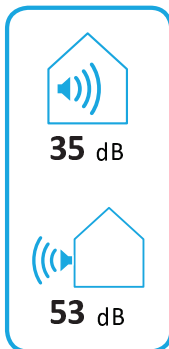
XL



A++



A



2015

811/2013



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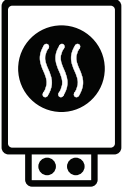




IJA

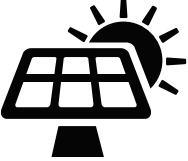
IE


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NIBE


NIBE F2120-12 + VVM320

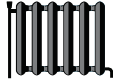











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Supplier's name:	NIBE		
Model:	NIBE F2120-12 + VVM320		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	A+++	A+++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	8,0	8,3	kW
Annual energy consumption for space heating, average climate	3409	4529	kWh
Annual electricity consumption for water heating, average climate	1661		kWh
Seasonal space heating energy efficiency, average climate:	190	148	%
Water heating energy efficiency, average climate:	101		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	9,3	9,8	kW
Rated heat output, warm climate:	9,2	9,2	kW
Annual energy consumption for space heating, cold climate	5666	7239	kWh
Annual electricity consumption for water heating, cold climate	1895		kWh
Annual energy consumption for space heating, warm climate	2241	2741	kWh
Annual electricity consumption for water heating, warm climate	1473		kWh
Seasonal space heating energy efficiency, cold climate:	159	130	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	216	176	%
Water heating energy efficiency, warm climate:	114		%
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:	194	152	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	163	134	%
Seasonal space heating energy efficiency of package, warm climate:	220	180	%

Model(s):		NIBE F2120-12 + VVM320										
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	8,3	kW	Seasonal space heating energy efficiency		η_s	148	%			
<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	7,3	kW	Tj = -7 °C	COPd	2,39	-					
Tj = +2 °C	Pdh	4,7	kW	Tj = +2 °C	COPd	3,85	-					
Tj = +7 °C	Pdh	2,9	kW	Tj = +7 °C	COPd	4,48	-					
Tj = +12 °C	Pdh	3,3	kW	Tj = +12 °C	COPd	5,30	-					
Tj = biv	Pdh	7,3	kW	Tj = biv	COPd	2,39	-					
Tj = TOL	Pdh	7,8	kW	Tj = TOL	COPd	2,28	-					
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				P _{cyh}		kW	Cycling interval efficiency			COP _{cyh}		-
Degradation co-efficient				Cdh	0,99	-	Heating water operating limit			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}	0,5	kW				
Thermostat-off mode	P _{TO}	0,007	kW	Type of energy input		Electric						
Standby mode	P _{SB}	0,025	kW									
Crankcase heater mode	P _{CK}	0,037	kW									
<i>Other items</i>												
Capacity control		variable		Rated air flow rate, outdoors			3400	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}	4529	kWh	Rated brine or water flow rate, outdoor heat exchanger				m ³ /h			
<i>For heat pump combination heater:</i>												
Declared load profile		XL		Water heating energy efficiency		η_{wh}	101	%				
Daily electricity consumption		Q _{elec}	7,56	kWh	Daily fuel consumption		Q _{fuel}		kWh			
Annual electricity consumption		AEC	1661	kWh	Annual fuel consumption		AFC		GJ			
Approved by:												
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden										