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NIBE

NIBE F2300-20



55 °C

35 °C



A+

A+



dB



62 dB

■ 17
■ **17**
■ 20
kW

■ 17
■ **18**
■ 20
kW



2015

811/2013

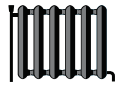


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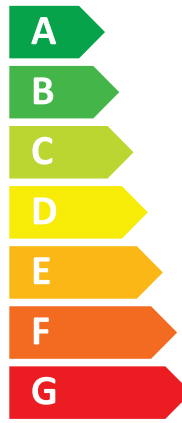
NIBE F2300-20 + VVM500



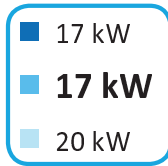
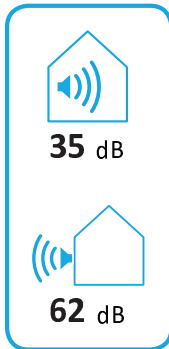
XXL



A+



A



2015

811/2013



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Y

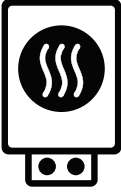


IJA

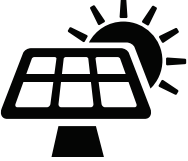
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NIBE F2300-20 + VVM500

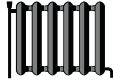









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Supplier's name:	NIBE		
Model:	NIBE F2300-20+ VVM 500		
Temperature application	35	55	°C
Declared load profile for water heating	XXL		
Seasonal space heating energy efficiency class, average climate:	A+	A+	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	17,5	17,3	kW
Annual energy consumption for space heating, average climate	9651	11453	kWh
Annual electricity consumption for water heating, average climate	2266		kWh
Seasonal space heating energy efficiency, average climate:	147	122	%
Water heating energy efficiency, average climate:	95		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	17,0	16,7	kW
Rated heat output, warm climate:	19,8	19,8	kW
Annual energy consumption for space heating, cold climate	12500	14433	kWh
Annual electricity consumption for water heating, cold climate	2632		kWh
Annual energy consumption for space heating, warm climate	5956	7365	kWh
Annual electricity consumption for water heating, warm climate	2095		kWh
Seasonal space heating energy efficiency, cold climate:	131	111	%
Water heating energy efficiency, cold climate:	82		%
Seasonal space heating energy efficiency, warm climate:	175	141	%
Water heating energy efficiency, warm climate:	103		%
Sound power level LWA outdoors	62		dB

Data for package fiche

Controller class	VII		
Controller contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	150	125	%
Seasonal space heating energy efficiency class for package, average climate:	A++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	135	115	%
Seasonal space heating energy efficiency of package, warm climate:	178	144	%

Model(s):		NIBE F2300-20+ VVM 500							
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: EN14825 and EN16147									
Rated heat output		Prated	17,3	kW	Seasonal space heating energy efficiency		η_s	122	%
<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	13,6	kW	Tj = -7 °C	COPd	2,43	-		
Tj = +2 °C	Pdh	15,9	kW	Tj = +2 °C	COPd	3,09	-		
Tj = +7 °C	Pdh	18,0	kW	Tj = +7 °C	COPd	3,70	-		
Tj = +12 °C	Pdh	20,0	kW	Tj = +12 °C	COPd	4,32	-		
Tj = biv	Pdh	14,0	kW	Tj = biv	COPd	2,58	-		
Tj = TOL	Pdh	12,7	kW	Tj = TOL	COPd	2,19	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-		
Bivalent temperature				T _{biv}	-5	°C	Operation limit temperature		
Cycling interval capacity for heating				P _{cyc}		kW	Cycling interval efficiency		
Degradation co-efficient				Cdh	0,99	-	Heating water operating limit		
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>					
Off mode	P _{OFF}	0,0015	kW	Rated heat output		P _{sup}	4,6	kW	
Thermostat-off mode	P _{TO}	0,017	kW						
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,032	kW						
<i>Other items</i>									
Capacity control		fixed		Rated air flow rate, outdoors			6000	m ³ /h	
Sound power level, indoors/outdoors		L _{WA}	35/62	dB	Rated water flow rate, indoor heat exchanger			2,04	m ³ /h
Annual energy consumption		Q _{HE}	11453	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}	95	%	
Daily electricity consumption	Q _{elec}	10,32	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption	AEC	2266	kWh	Annual fuel consumption		AFC		GJ	
Approved by:									
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							