



ENERG
енергия · ενεργεια

Y IJA
IE IA

NIBE

NIBE F2040-8



55 °C

35 °C



A++

A++



dB



54 dB

10

7

8

kW

9

8

8

kW



2015

811/2013



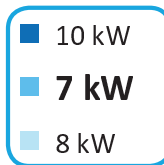
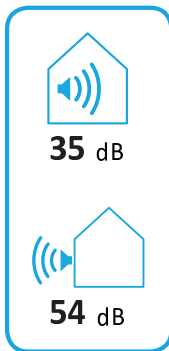
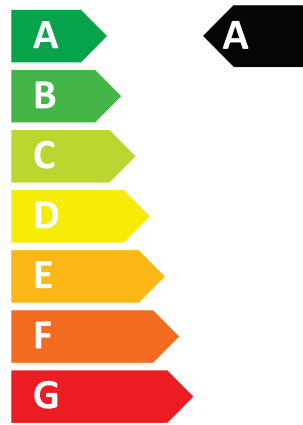
ENERG Y IJA
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NIBE

NIBE F2040-8 + VVM320

 55°C

 XL



2015

811/2013



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Y

IJA

IE

IA

NIBE

NIBE F2040-8

 35 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

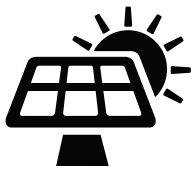
D

E

F

G

+



+



+



+





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Y

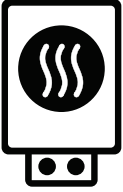




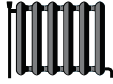
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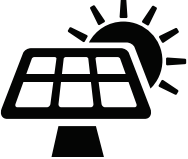
NIBE


NIBE F2040-8 + VVM320










55 °C







+ 

+ 

+ 


+ 






Supplier's name:	NIBE		
Model:	NIBE F2040-8+ VVM 320		
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:	8,2	7,0	kW
Annual energy consumption for space heating, average climate	3882	4447	kWh
Annual electricity consumption for water heating, average climate	1689		kWh
Seasonal space heating energy efficiency, average climate:	172	127	%
Water heating energy efficiency, average climate:	99		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	9,0	10,0	kW
Rated heat output, warm climate:	8,0	8,0	kW
Annual energy consumption for space heating, cold climate	6264	8844	kWh
Annual electricity consumption for water heating, cold climate	1886		kWh
Annual energy consumption for space heating, warm climate	1879	2333	kWh
Annual electricity consumption for water heating, warm climate	1540		kWh
Seasonal space heating energy efficiency, cold climate:	139	108	%
Water heating energy efficiency, cold climate:	89		%
Seasonal space heating energy efficiency, warm climate:	225	180	%
Water heating energy efficiency, warm climate:	109		%
Sound power level LWA outdoors	54		dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	176	131	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	143	112	%
Seasonal space heating energy efficiency of package, warm climate:	229	184	%

Model(s):		NIBE F2040-8+ VVM 320												
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	7,0	kW	Seasonal space heating energy efficiency		η_s	127	%					
<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	6,3	kW	Tj = -7 °C	COPd	1,94	kW							
Tj = +2 °C	Pdh	3,9	kW	Tj = +2 °C	COPd	3,11	kW							
Tj = +7 °C	Pdh	2,6	kW	Tj = +7 °C	COPd	4,42	kW							
Tj = +12 °C	Pdh	3,7	kW	Tj = +12 °C	COPd	5,93	kW							
Tj = biv	Pdh	6,6	kW	Tj = biv	COPd	1,83	kW							
Tj = TOL	Pdh	5,9	kW	Tj = TOL	COPd	1,86	kW							
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW							
Bivalent temperature				T _{biv}	-8,6	°C		Operation limit temperature		TOL	-10	°C		
Cycling interval capacity for heating				P _{cyc}		kW		Cycling interval efficiency		COP _{cyc}		-		
Degradation co-efficient				Cdh	0,97	-		Heating water operating limit		WTOL	58	°C		
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>										
Off mode	P _{OFF}	0,002	kW	Rated heat output		P _{sup}	1,1	kW						
Thermostat-off mode	P _{TO}	0,01	kW	Type of energy input		Electric								
Standby mode	P _{SB}	0,015	kW	Rated air flow rate, outdoors			3000	m ³ /h						
Crankcase heater mode	P _{CK}	0,03	kW	Rated water flow rate, indoor heat exchanger			0,60	m ³ /h						
<i>Other items</i>				Rated brine or water flow rate, outdoor heat exchanger				m ³ /h						
Capacity control	variable			For heat pump combination heater:										
Sound power level, indoors/outdoors	L _{WA}	35/54	dB	Declared load profile		XL		Water heating energy efficiency		η_{wh}	99	%		
Annual energy consumption	Q _{HE}	4447	kWh	Daily electricity consumption		Q _{elec}	7,69	kWh		Daily fuel consumption		Q _{fuel}		kWh
				Annual electricity consumption		AEC	1689	kWh		Annual fuel consumption		AFC		GJ
Approved by:														
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden												

Model(s):		NIBE F2040-8+ VVM 320								
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:		Low temperature (35 °C)								
Applied standards: EN14825 and EN16147										
Rated heat output		Prated	8,2	kW	Seasonal space heating energy efficiency		η_s	172	%	
<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	7,4	kW	Tj = -7 °C	COPd	2,92	kW			
Tj = +2 °C	Pdh	4,5	kW	Tj = +2 °C	COPd	4,30	kW			
Tj = +7 °C	Pdh	2,9	kW	Tj = +7 °C	COPd	5,41	kW			
Tj = +12 °C	Pdh	3,5	kW	Tj = +12 °C	COPd	6,51	kW			
Tj = biv	Pdh	7,4	kW	Tj = biv	COPd	2,86	kW			
Tj = TOL	Pdh	6,8	kW	Tj = TOL	COPd	2,67	kW			
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW			
Bivalent temperature				T _{biv}	-7,7	°C	Operation limit temperature			
Cycling interval capacity for heating				P _{cyc}		kW	Cycling interval efficiency		COP _{cyc}	-
Degradation co-efficient				C _{dh}	0,96	-	Heating water operating limit		WTOL	58
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>						
Off mode	P _{OFF}	0,002	kW	Rated heat output		P _{sup}	1,4	kW		
Thermostat-off mode	P _{TO}	0,015	kW							
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric				
Crankcase heater mode	P _{CK}	0,03	kW							
<i>Other items</i>										
Capacity control		variable		Rated air flow rate, outdoors			3000	m ³ /h		
Sound power level, indoors/outdoors		L _{WA}	35/54	dB	Rated water flow rate, indoor heat exchanger			0,71	m ³ /h	
Annual energy consumption		Q _{HE}	3882	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}	99	%		
Daily electricity consumption		Q _{elec}	7,69	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption		AEC	1689	kWh	Annual fuel consumption		AFC		GJ	
Approved by:										
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden								