



**ENERG**  
енергия · ενεργεια



**NIBE**

NIBE F2040-16



55 °C

35 °C



**A++**

**A++**



dB



**61** dB

■ 16  
■ 14  
■ 15  
kW

■ 15  
■ 15  
■ 15  
kW



2015

811/2013

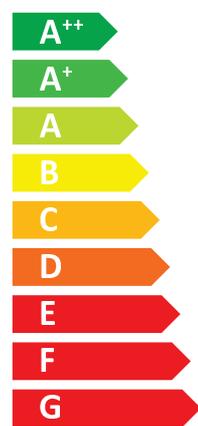


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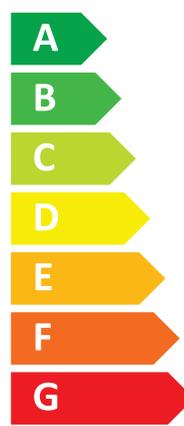
Y IJA  
IE IA

**NIBE**

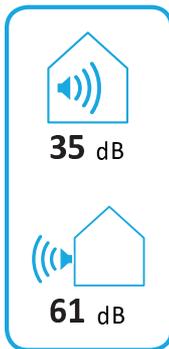
NIBE F2040-16 + VVM310



**A++**



**A**



2015

811/2013



# ENERG

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Y

IJA

IE

IA

**NIBE**

## NIBE F2040-16

 35 °C



**A<sup>++</sup>**

**A<sup>+++</sup>**

**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

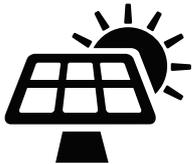
**D**

**E**

**F**

**G**

+



+



+



+





# ENERG

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Y

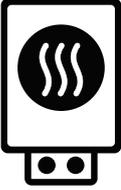
IJA

IE

IA

**NIBE**

## NIBE F2040-16 + VVM310

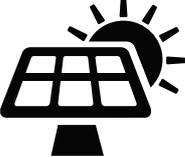







55 °C




+ 

+ 

+ 

+ 





Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F2040-16+ VVM 310</b>		
Temperature application	<b>35</b>	<b>55</b>	°C
Declared load profile for water heating	<b>XL</b>		
Seasonal space heating energy efficiency class, average climate:	<b>A++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:	<b>A</b>		
Rated heat output, average climate:	14,5	14,0	kW
Annual energy consumption for space heating, average climate	6702	8431	kWh
Annual electricity consumption for water heating, average climate	1702		kWh
Seasonal space heating energy efficiency, average climate:	176	134	%
Water heating energy efficiency, average climate:	98		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	15,0	16,0	kW
Rated heat output, warm climate:	15,0	15,0	kW
Annual energy consumption for space heating, cold climate	10040	13629	kWh
Annual electricity consumption for water heating, cold climate	1904		kWh
Annual energy consumption for space heating, warm climate	3370	4183	kWh
Annual electricity consumption for water heating, warm climate	1551		kWh
Seasonal space heating energy efficiency, cold climate:	144	113	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	235	189	%
Water heating energy efficiency, warm climate:	108		%
Sound power level LWA outdoors	61		dB

#### Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	180	138	%
Seasonal space heating energy efficiency class for package, average climate:	<b>A+++</b>	<b>A++</b>	%
Seasonal space heating energy efficiency of package, cold climate:	148	117	%
Seasonal space heating energy efficiency of package, warm climate:	239	193	%

<b>Model(s):</b>		<b>NIBE F2040-16+ VVM 310</b>										
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												
<b>Rated heat output</b>		Prated	14,0	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	134	%			
<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	12,5	kW	Tj = -7 °C	COPd	2,01	kW					
Tj = +2 °C	Pdh	7,6	kW	Tj = +2 °C	COPd	3,29	kW					
Tj = +7 °C	Pdh	4,9	kW	Tj = +7 °C	COPd	4,68	kW					
Tj = +12 °C	Pdh	6,8	kW	Tj = +12 °C	COPd	6,51	kW					
Tj = biv	Pdh	12,7	kW	Tj = biv	COPd	1,95	kW					
Tj = TOL	Pdh	11,0	kW	Tj = TOL	COPd	1,95	kW					
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW					
Bivalent temperature				T <sub>biv</sub>	-7,6	°C	Operation limit temperature			TOL	-10	°C
Cycling interval capacity for heating				P <sub>cyc</sub>		kW	Cycling interval efficiency			COP <sub>cyc</sub>		-
Degradation co-efficient				C <sub>dh</sub>	0,98	-	Heating water operating limit			WTOL	58	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>								
Off mode	P <sub>OFF</sub>	0,002	kW	Rated heat output		P <sub>sup</sub>	3,0	kW				
Thermostat-off mode	P <sub>TO</sub>	0,016	kW	Type of energy input		Electric						
Standby mode	P <sub>SB</sub>	0,015	kW									
Crankcase heater mode	P <sub>CK</sub>	0,035	kW									
<i>Other items</i>												
Capacity control		variable		Rated air flow rate, outdoors			6000	m <sup>3</sup> /h				
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/61	dB	Rated water flow rate, indoor heat exchanger			1,21	m <sup>3</sup> /h			
Annual energy consumption		Q <sub>HE</sub>	8431	kWh	Rated brine or water flow rate, outdoor heat exchanger				m <sup>3</sup> /h			
<i>For heat pump combination heater:</i>												
<b>Declared load profile</b>		<b>XL</b>		<b>Water heating energy efficiency</b>		$\eta_{wh}$	98	%				
Daily electricity consumption		Q <sub>elec</sub>	7,75	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh			
Annual electricity consumption		AEC	1702	kWh	Annual fuel consumption		AFC		GJ			
<b>Approved by:</b>												
<b>Contact details</b>		<b>© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden</b>										

<b>Model(s):</b>		<b>NIBE F2040-16+ VVM 310</b>							
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									
<b>Rated heat output</b>		Prated	14,5	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	176	%
<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	12,9	kW	Tj = -7 °C	COPd	2,96	kW		
Tj = +2 °C	Pdh	7,9	kW	Tj = +2 °C	COPd	4,37	kW		
Tj = +7 °C	Pdh	5,1	kW	Tj = +7 °C	COPd	5,58	kW		
Tj = +12 °C	Pdh	6,4	kW	Tj = +12 °C	COPd	6,99	kW		
Tj = biv	Pdh	13,4	kW	Tj = biv	COPd	2,86	kW		
Tj = TOL	Pdh	12,5	kW	Tj = TOL	COPd	2,71	kW		
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW		
Bivalent temperature				T <sub>biv</sub>	-8	°C	Operation limit temperature		
Cycling interval capacity for heating				P <sub>cyc</sub>		kW	Cycling interval efficiency		
Degradation co-efficient				C <sub>dh</sub>	0,97	-	Heating water operating limit		
Power consumption in modes other than active mode				Supplementary heater					
Off mode		P <sub>OFF</sub>	0,002	kW	Rated heat output		P <sub>sup</sub>	2,0	kW
Thermostat-off mode		P <sub>TO</sub>	0,025	kW					
Standby mode		P <sub>SB</sub>	0,015	kW	Type of energy input		Electric		
Crankcase heater mode		P <sub>CK</sub>	0,035	kW					
Other items									
Capacity control		variable			Rated air flow rate, outdoors			6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/61	dB	Rated water flow rate, indoor heat exchanger			1,78	m <sup>3</sup> /h
Annual energy consumption		Q <sub>HE</sub>	6702	kWh	Rated brine or water flow rate, outdoor heat exchanger				m <sup>3</sup> /h
For heat pump combination heater:									
<b>Declared load profile</b>		<b>XL</b>			<b>Water heating energy efficiency</b>		$\eta_{wh}$	98	%
Daily electricity consumption		Q <sub>elec</sub>	7,75	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh
Annual electricity consumption		AEC	1702	kWh	Annual fuel consumption		AFC		GJ
<b>Approved by:</b>									
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							