



**ENERG**  
енергия · ενεργεια



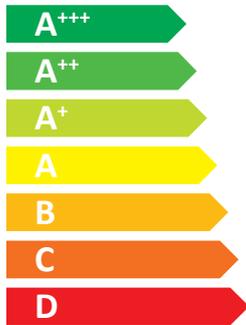
**NIBE**

NIBE F2050-6



55 °C

35 °C



**A++**

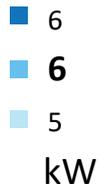
**A+++**



dB



**53** dB



kW



kW



2019

811/2013



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Y

IJA

IE

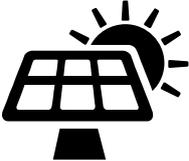
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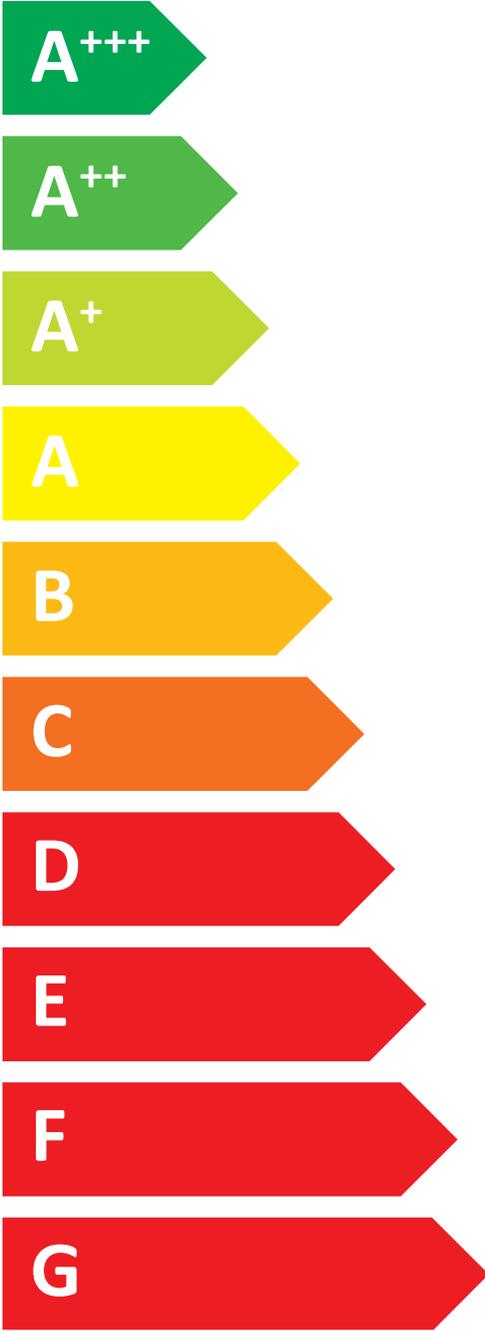
## NIBE

### NIBE F2050-6 + SMO





- + 
- + 
- + 
- + 




Supplier's name:	NIBE AB		
Model:	NIBE F2050-6		
Temperature application	35	55	°C
Declared load profile for water heating			
Seasonal space heating energy efficiency class, average climate:	<b>A+++</b>	<b>A++</b>	
Water heating energy efficiency class, average climate:			
Rated heat output, average climate:	5	6	kW
Annual energy consumption for space heating, average climate	2116	3250	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	200	139	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors			dB
Rated heat output, cold climate:	6	6	kW
Rated heat output, warm climate:	6	5	kW
Annual energy consumption for space heating, cold climate	3487	4604	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	1110	1617	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	161	119	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	265	178	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	53		dB

**Data for package fiche with SMO or VVM**

Controller class	CLASS_VI		
Controller contribution to efficiency	4		%
Seasonal space heating energy efficiency of package, average climate:	204	143	%
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:	165	123	%
Seasonal space heating energy efficiency of package, warm climate:	269	182	%

<b>Model(s):</b>		<b>NIBE F2050-6</b>							
Type of heat source/sink:		Air/water							
Low-temperature heat pump:		No							
Equipped with supplementary heater:		No							
Heat pump combination heater:		No							
Climate condition:		Average							
Temperature application:		Medium temperature (55 °C)							
Applied standards: EN14825 - EN12102-1									
<b>Rated heat output</b>		Prated	5,6	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	139	%
<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	5,0	kW	Tj = -7 °C	COPd	1,95			
Tj = +2 °C	Pdh	2,9	kW	Tj = +2 °C	COPd	3,51			
Tj = +7 °C	Pdh	1,9	kW	Tj = +7 °C	COPd	4,99			
Tj = +12 °C	Pdh	1,7	kW	Tj = +12 °C	COPd	6,33			
Tj = biv	Pdh	5,0	kW	Tj = biv	COPd	1,95			
Tj = TOL	Pdh	4,6	kW	Tj = TOL	COPd	1,75			
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd				
Bivalent temperature				T <sub>biv</sub>	-7	°C	Operation limit temperature		
Cycling interval capacity for heating				P <sub>cyh</sub>		kW	Cycling interval efficiency		
Degradation co-efficient				Cdh	0,96	-	Heating water operating limit		
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>					
Off mode	P <sub>OFF</sub>	0,007	kW	Rated heat output		P <sub>sup</sub>	1,0	kW	
Thermostat-off mode	P <sub>TO</sub>	0,011	kW						
Standby mode	P <sub>SB</sub>	0,011	kW	Type of energy input		Electric			
Crankcase heater mode	P <sub>CK</sub>	0,000	kW						
<i>Other items</i>									
Capacity control	Variable			Rated air flow rate, outdoors			2340	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/53	dB	Rated water flow rate, indoor heat exchanger				m <sup>3</sup> /h	
Annual energy consumption	Q <sub>HE</sub>	3250	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>Water heating energy efficiency</b>		$\eta_{wh}$		%	
Daily electricity consumption	Q <sub>elec</sub>		kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh	
Annual electricity consumption	AEC		kWh	Annual fuel consumption		AFC		GJ	
<b>Approved by:</b>									
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							