



ENERGY

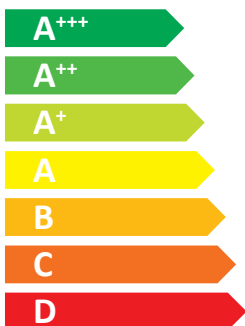


NIBE F2050-12



55 °C

35 °C



A++

A+++



60 dB

11

8

9

kW

11

8

9

kW



2019

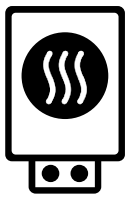
811/2013



ENERGY

NIBE

NIBE F2050-12 + SMO S40



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

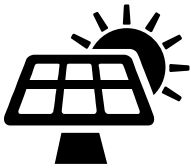
D

E

F

G

+



+



+



+




Supplier's name:	NIBE AB		
Model:	NIBE F2050-12 + SMO S40		
Temperature application	35	55	°C
Declared load profile for water heating			
Seasonal space heating energy efficiency class, average climate:	A+++	A++	
Water heating energy efficiency class, average climate:			
Rated heat output, average climate:	7,5	7,8	kW
Annual energy consumption for space heating, average climate	3183	4613	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	192	137	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	11,0	11,0	kW
Rated heat output, warm climate:	9,0	9,0	kW
Annual energy consumption for space heating, cold climate	7051	9187	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	1860	2768	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	151	115	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	256	171	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	60		dB

Data for package fiche

Controller class	CLASS VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	196	141	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	155	119	%
Seasonal space heating energy efficiency of package, warm climate:	260	175	%

Doc. Number_Compliance file:

DOC_0004459-0

Model(s):		NIBE F2050-12							
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: EN 14825:2022, EN 12102-1:2022									
Rated heat output		Prated	7,8	kW	Seasonal space heating energy efficiency		η_s	137	%
<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	6,9	kW	Tj = -7 °C	COPd	2,00			
Tj = +2 °C	Pdh	4,4	kW	Tj = +2 °C	COPd	3,45			
Tj = +7 °C	Pdh	3,3	kW	Tj = +7 °C	COPd	4,85			
Tj = +12 °C	Pdh	4,0	kW	Tj = +12 °C	COPd	6,90			
Tj = biv	Pdh	6,9	kW	Tj = biv	COPd	2,00			
Tj = TOL	Pdh	5,4	kW	Tj = TOL	COPd	1,40			
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		
Cycling interval capacity for heating				P _{cyh}		kW	Cycling interval efficiency		
Degradation co-efficient				Cdh	0,95	-	Heating water operating limit		
							TOL	-10	°C
							COP _{cyh}		-
							WTOL	60	°C
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>					
Off mode	P _{OFF}	0,028	kW	Rated heat output		P _{sup}	2,4	kW	
Thermostat-off mode	P _{TO}	0,031	kW						
Standby mode	P _{SB}	0,031	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,000	kW						
<i>Other items</i>									
Capacity control		Variable		Rated air flow rate, outdoors			3180	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	-/60		Rated water flow rate, indoor heat exchanger				m ³ /h	
Annual energy consumption	Q _{HE}	4613		Rated brine or water flow rate, outdoor heat exchanger				m ³ /h	
<i>For heat pump combination heater:</i>									
Declared load profile				Water heating energy efficiency		η_{wh}		%	
Daily electricity consumption		Q _{elec}		Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption		AEC		Annual fuel consumption		AFC		GJ	
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							

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