



# ENERGY

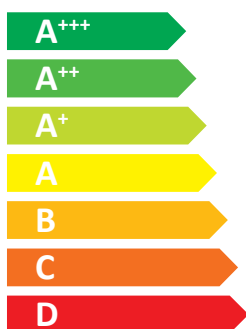


NIBE F2040-6



55 °C

35 °C



A<sup>++</sup>

A<sup>+++</sup>



dB



50 dB

6  
5  
5  
kW

4  
5  
4  
kW



2019

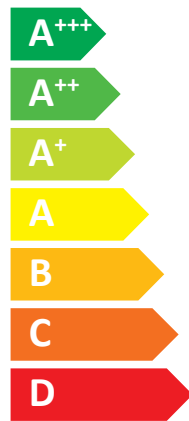
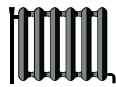
811/2013



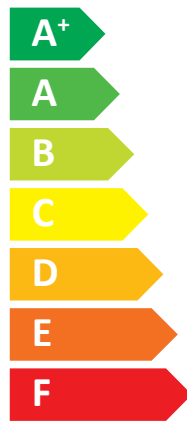
# ENERGY



NIBE F2040-6 + VVM S320



A<sup>++</sup>



A



35 dB



50 dB



6 kW

5 kW

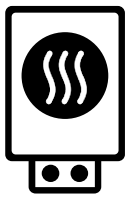
5 kW



# ENERGY



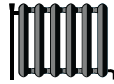
NIBE F2040-6 + VVM S320



A<sup>++</sup>



A



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

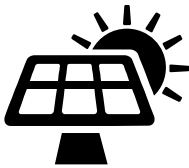
E

F

G

A<sup>++</sup>

+



+



+



+



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

E

F

G


A

Supplier's name:	<b>NIBE</b>		
Model:	<b>F2040-6 + VVM S320</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:	5	5	kW
Annual energy consumption for space heating, average climate	2089	3248	kWh
Annual electricity consumption for water heating, average climate	1833		kWh
Seasonal space heating energy efficiency, average climate:	188	131	%
Water heating energy efficiency, average climate:	91		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	4	6	kW
Rated heat output, warm climate:	4	5	kW
Annual energy consumption for space heating, cold climate	2694	4610	kWh
Annual electricity consumption for water heating, cold climate	2332		kWh
Annual energy consumption for space heating, warm climate	872	1398	kWh
Annual electricity consumption for water heating, warm climate	1485		kWh
Seasonal space heating energy efficiency, cold climate:	143	116	%
Water heating energy efficiency, cold climate:	72		%
Seasonal space heating energy efficiency, warm climate:	252	179	%
Water heating energy efficiency, warm climate:	113		%
Sound power level LWA outdoors	50		dB

#### Data for package fiche

in combination with SMO20 or SMO40

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	192	135	%
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:	147	120	%
Seasonal space heating energy efficiency of package, warm climate:	256	183	%

Model(s):		F2040-6 + VVM S320							
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: EN14511, EN14825, EN16147 and EN12102									
Rated heat output		Prated	5,3	kW	Seasonal space heating energy efficiency		ηs	131	%
Declared capacity for part load at outdoor temperature Tj				Declared coefficient of performance for part load at outdoor temperature Tj					
Tj = -7 °C	Pdh	4,7	kW	Tj = -7 °C		COPd	1,88	kW	
Tj = +2 °C	Pdh	2,8	kW	Tj = +2 °C		COPd	3,26	kW	
Tj = +7 °C	Pdh	1,8	kW	Tj = +7 °C		COPd	4,72	kW	
Tj = +12 °C	Pdh	2,7	kW	Tj = +12 °C		COPd	6,47	kW	
Tj = biv	Pdh	4,7	kW	Tj = biv		COPd	1,88	kW	
Tj = TOL	Pdh	4,1	kW	Tj = TOL		COPd	1,77	kW	
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)		COPd		kW	
Bivalent temperature		Tbiv	-7	°C	Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating		Pcyc		kW	Cycling interval efficiency		COPcyc		-
Degradation co-efficient		Cdh	0,99	-	Heating water operating limit		WTOL	58	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		P <sub>OFF</sub>	0,007	kW	Rated heat output		Psup	1,2	kW
Thermostat-off mode		P <sub>TO</sub>	0,012	kW					
Standby mode		P <sub>SB</sub>	0,012	kW	Type of energy input		Electric		
Crankcase heater mode		P <sub>CK</sub>	0	kW					
Other items									
Capacity control		variable		Rated air flow rate, outdoors			2526	m³/h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/50	dB	Rated water flow rate, indoor heat exchanger			m³/h	
Annual energy consumption		Q <sub>HE</sub>	3248	kWh	Rated brine or water flow rate, outdoor heat exchanger			m³/h	
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency		η <sub>wh</sub>	91	%	
Daily electricity consumption		Q <sub>elec</sub>	8,59	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh
Annual electricity consumption		AEC	1833	kWh	Annual fuel consumption		AFC		GJ
Approved by:									
Contact details		NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden							