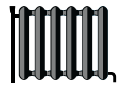




# ENERGY

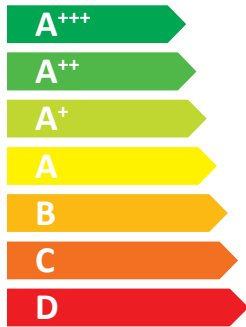


NIBE F2040-16



55 °C

35 °C



A++

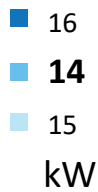
A+++



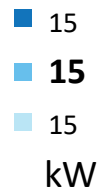
dB



61 dB



kW



kW



2019

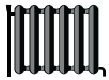
811/2013



# ENERGY

**NIBE**

NIBE F2040-16 + SMO



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

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

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

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

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

**A**

**B**

**C**

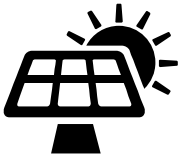
**D**

**E**

**F**

**G**

+



+



+




+



Supplier's name:	<b>NIBE</b>		
Model:	<b>NIBE F2040-16+ SMO</b>		
Temperature application	<b>35</b>	<b>55</b>	°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:	14,5	14,0	kW
Annual energy consumption for space heating, average climate	6702	8431	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	176	134	%
Water heating energy efficiency, average climate:			%
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			kWh
Annual energy consumption for space heating, warm climate	3370	4183	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	144	113	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	235	189	%
Water heating energy efficiency, warm climate:			%
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+ SMO</b>											
Type of heat source/sink:				Air-to-water											
Low-temperature heat pump:				No											
Equipped with supplementary heater:				No											
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	-							
Tj = +2 °C	Pdh	7,6	kW		Tj = +2 °C	COPd	3,29	-							
Tj = +7 °C	Pdh	4,9	kW		Tj = +7 °C	COPd	4,68	-							
Tj = +12 °C	Pdh	6,8	kW		Tj = +12 °C	COPd	6,51	-							
Tj = biv	Pdh	12,7	kW		Tj = biv	COPd	1,95	-							
Tj = TOL	Pdh	11,0	kW		Tj = TOL	COPd	1,95	-							
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-							
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												
Standby mode	P <sub>SB</sub>	0,015	kW		Type of energy input				Electric						
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>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											