



ENERG
енергия · ενέργεια



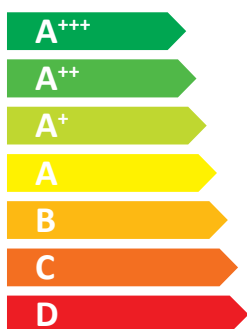
NIBE

NIBE F1345-40



55 °C

35 °C



A++

A+++



47 dB



dB

■ 46
■ **46**
■ 46
kW

■ 46
■ **46**
■ 46
kW



2019

811/2013



ENERG

енергия · ενεργεια

Y

IJA

IE

IA

NIBE

NIBE F1345-40



A⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺⁺

A⁺

A

B

C

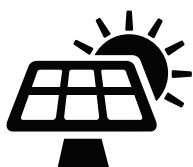
D

E

F

G

+



+



+



+



Supplier's name:	NIBE		
Model:	NIBE F1345-40		
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:	46	46	kW
Annual energy consumption for space heating, average climate	19964	25091	kWh
Annual electricity consumption for water heating, average climate			kWh
Seasonal space heating energy efficiency, average climate:	182	144	%
Water heating energy efficiency, average climate:			%
Sound power level LWA indoors	47		dB
Rated heat output, cold climate:	46	46	kW
Rated heat output, warm climate:	46	46	kW
Annual energy consumption for space heating, cold climate	22969	228850	kWh
Annual electricity consumption for water heating, cold climate			kWh
Annual energy consumption for space heating, warm climate	12988	16186	kWh
Annual electricity consumption for water heating, warm climate			kWh
Seasonal space heating energy efficiency, cold climate:	189	149	%
Water heating energy efficiency, cold climate:			%
Seasonal space heating energy efficiency, warm climate:	181	144	%
Water heating energy efficiency, warm climate:			%
Sound power level LWA outdoors	-		dB

Data for package fiche

Controller class	II		
Controller contribution to efficiency	2		%
Seasonal space heating energy efficiency of package, average climate:	184	146	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	191	151	%
Seasonal space heating energy efficiency of package, warm climate:	183	146	%

Model(s):				NIBE F1345-40							
Type of heat source/sink:				Brine-to-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											
Rated heat output			Prated	46,0	kW	Seasonal space heating energy efficiency			ηs	144	%
<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	38,2	kW	Tj = -7 °C			COPd	3,33	-		
Tj = +2 °C	Pdh	39,1	kW	Tj = +2 °C			COPd	3,80	-		
Tj = +7 °C	Pdh	19,9	kW	Tj = +7 °C			COPd	4,22	-		
Tj = +12 °C	Pdh	20,1	kW	Tj = +12 °C			COPd	4,61	-		
Tj = biv	Pdh	38,4	kW	Tj = biv			COPd	3,41	-		
Tj = TOL	Pdh	37,8	kW	Tj = TOL			COPd	3,19	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)			COPd		-		
Bivalent temperature	Tbiv	-5,7	°C	Operation limit temperature			TOL	-10	°C		
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency			COPcyc		-		
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit			WTOL	65	°C		
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode	P _{OFF}	0,002	kW	Rated heat output			Psup	8,2	kW		
Thermostat-off mode	P _{TO}	0,05	kW								
Standby mode	P _{SB}	0,007	kW	Type of energy input			Electric				
Crankcase heater mode	P _{CK}	0,08	kW								
<i>Other items</i>											
Capacity control	variable			Rated air flow rate, outdoors					m³/h		
Sound power level, indoors/outdoors	L _{WA}	47/-	dB	Rated water flow rate, indoor heat exchanger				4,07	m³/h		
Annual energy consumption	Q _{HE}	25091	kWh	Rated brine or water flow rate, outdoor heat exchanger				7,77	m³/h		
<i>For heat pump combination heater:</i>											
Declared load profile						Water heating energy efficiency			η _{wh}		%
Daily electricity consumption	Q _{elec}		kWh	Daily fuel consumption			Q _{fuel}		kWh		
Annual electricity consumption	AEC		kWh	Annual fuel consumption			AFC		GJ		
Approved by:											
Contact details		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden									