


Product fiche

Supplier's name:	NIBE		
Model:	NIBE F1153-4 + VPB300 WW		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	A+++	A+++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	5	5	kW
Annual energy consumption for space heating, average climate	1534	1971	kWh
Annual electricity consumption for water heating, average climate	1476		kWh
Seasonal space heating energy efficiency, average climate:	272	210	%
Water heating energy efficiency, average climate:	114		%
Sound power level LWA indoors	42	42	dB
Rated heat output, cold climate:	5	5	kW
Rated heat output, warm climate:	5	5	kW
Annual energy consumption for space heating, cold climate	1756	2278	kWh
Annual electricity consumption for water heating, cold climate	1476		kWh
Annual energy consumption for space heating, warm climate	1016	1288	kWh
Annual electricity consumption for water heating, warm climate	1476		kWh
Seasonal space heating energy efficiency, cold climate:	284	217	%
Water heating energy efficiency, cold climate:	114		%
Seasonal space heating energy efficiency, warm climate:	266	208	%
Water heating energy efficiency, warm climate:	114		%
Sound power level LWA outdoors	-	-	dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4		%
Seasonal space heating energy efficiency of package, average climate:	276	214	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	288	221	%
Seasonal space heating energy efficiency of package, warm climate:	270	212	%

Model(s):		NIBE F1153-4 + VPB300 WW									
Type of heat source/sink:		Water-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: EN14825 and EN16147											
Rated heat output		Prated	5,2	kW	Seasonal space heating energy efficiency		η_s	210	%		
<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	4,7	kW	Tj = -7 °C	COPd	4,62	kW				
Tj = +2 °C	Pdh	2,9	kW	Tj = +2 °C	COPd	5,55	kW				
Tj = +7 °C	Pdh	1,9	kW	Tj = +7 °C	COPd	6,12	kW				
Tj = +12 °C	Pdh	1,6	kW	Tj = +12 °C	COPd	6,23	kW				
Tj = biv	Pdh	5,0	kW	Tj = biv	COPd	4,38	kW				
Tj = TOL	Pdh	5,0	kW	Tj = TOL	COPd	4,38	kW				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		kW				
Bivalent temperature				T _{biv}	-9	°C	Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating				P _{ych}		kW	Cycling interval efficiency		COP _{yc}		-
Degradation co-efficient				C _{dh}	1,00	-	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		P _{sup}	0,0	kW			
Thermostat-off mode	P _{TO}	0,002	kW	Type of energy input		Electric					
Standby mode	P _{SB}	0,002	kW								
Crankcase heater mode	P _{CK}	0,009	kW								
<i>Other items</i>											
Capacity control		variable		Rated air flow rate, outdoors				m ³ /h			
Sound power level, indoors/outdoors		L _{WA}	42/-	dB	Rated brine or water flow rate, outdoor heat exchanger			1,07	m ³ /h		
Annual energy consumption		Q _{HE}	1971	kWh							
<i>For heat pump combination heater:</i>											
Declared load profile		XL		Water heating energy efficiency		η_{wh}	114	%			
Daily electricity consumption		Q _{elec}	6,72	kWh	Daily fuel consumption		Q _{fuel}	kWh			
Annual electricity consumption		AEC	1476	kWh	Annual fuel consumption		AFC	GJ			
Approved by:											
Contact details		© NIBE Energy Systems - Box 14 - Hannabadvägen 5 - 28521 Markaryd - Sweden									