


Product fiche

Supplier's name:	NIBE		
Model:	NIBE F1253-4 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	1428		kWh
Seasonal space heating energy efficiency, average climate:	272	210	%
Water heating energy efficiency, average climate:	117		%
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	1428		kWh
Annual energy consumption for space heating, warm climate	1016	1288	kWh
Annual electricity consumption for water heating, warm climate	1428		kWh
Seasonal space heating energy efficiency, cold climate:	284	217	%
Water heating energy efficiency, cold climate:	117		%
Seasonal space heating energy efficiency, warm climate:	266	208	%
Water heating energy efficiency, warm climate:	117		%
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 F1253-4 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				
Cycling interval capacity for heating				P _{cyh}		kW	Cycling interval efficiency				
Degradation co-efficient				Cdh	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								
Standby mode	P _{SB}	0,002	kW	Type of energy input				Electric			
Crankcase heater mode	P _{CK}	0,009	kW								
<i>Other items</i>											
Capacity control				variable				Rated air flow rate, outdoors			
Sound power level, indoors/outdoors				L _{WA}	42/-	dB					
Annual energy consumption				Q _{HE}	1971	kWh	Rated brine or water flow rate, outdoor heat exchanger				
								1,07	m ³ /h		
<i>For heat pump combination heater:</i>											
Declared load profile				XL				Water heating energy efficiency			
								η_{wh}	117	%	
Daily electricity consumption				Q _{elec}	6,50	kWh	Daily fuel consumption				
Annual electricity consumption				AEC	1428	kWh	Annual fuel consumption				
							AFC		GJ		
Approved by:											
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