Information requirements for heat pump space heaters and heat pump combination heaters					Source: 811/2013 & 813/2013	
Model(s):	Outdoor unit:	RAS-4WHNPE	Indoor unit:	RWD-4.0NW1E- 220S(-K)	Tank model:	<
Air-to-water heat pump:						Yes
Low-temperature heat pump:						No
Equipped with a supplementary heater:					Yes	
Heat pump combination heater:						Yes

Low-temperature heat pump:							No
Equipped with a supplementary heater							Yes
Heat pump combination heater:							Yes
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Average							
Rated heat output (3)	Prated	10	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	135%	%
Declared capacity for heating for part keeperature Tj	oad at indoor temp	perature 20 °C a	nd outdoor	Declared coefficient of performance or 20 °C and outdoor temperature Tj	primary energy ratio for p	oart load at indoor	temperature
Tj = - 7 °C	Pdh	8,6	kW	Tj = - 7 °C	COPd	1,80	-
Tj = + 2 °C	Pdh	5,2	kW	Tj = + 2 °C	COPd	3,60	-
Tj = + 7 °C	Pdh	3,5	kW	Tj = + 7 °C	COPd	4,80	-
Tj = + 12 °C	Pdh	3,6	kW	Tj = + 12 °C	COPd	5,80	_
Tj = bivalent temperature	Pdh	8,6	kW	Tj = bivalent temperature	COPd	1,80	-
Tj = operation limit temperature	Pdh	7,4	kW	Tj = operation limit temperature	COPd	1,70	-
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Pdh	х	kW	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	Х	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water HP : Operation limit temperature	TOL	-10	°C
				Cycling interval efficiency	COPcyc	х	-
Cycling interval capacity for heating	Pcych	X	kW	Heating water operating limit temperature	WTOL	55	°C
				Su	pplementary heater		•
Degradation coefficient (4)	Cdh	0,9	_	Rated heat output (3)	Psup	2,6	kW
Anual Energy consumption	Q_{HE}	5837	kWh	Type of energy input		Electricity	
Colder							
Rated heat output (3)	Prated	11	kW	Seasonal space heating energy efficiency	η₅	120%	%
				Su	pplementary heater		
				Rated heat output (3)	Psup	2,3	kW
Anual Energy consumption	Q_{HE}	8654	kWh	Type of energy input	Electricity		
Warmer							
Rated heat output (3)	Prated	10	kW	Seasonal space heating energy efficiency	$\eta_{\rm s}$	191%	%
				Su	pplementary heater		1
				Rated heat output (3)	Psup	0	kW
Anual Energy consumption	Q_{HE}	2748	kWh	Type of energy input	Electricity		
Bower consumption is	madaa athar t	han active me		7			

Power consumption in modes other than active mode						
Off mode	P _{OFF}	0,019	kW			
Thermostat-off mode	P _{TO}	0	kW			
Standby mode	P _{SB}	0,019	kW			
Crankcase heater mode	P _{CK}	0	kW			

Other items				Outdoor heat exchanger			
Capacity control	fixed/variable	Variable		For air-to-water HP: Rated air flow rate	Q _{airsource}	4800	m³/h
Sound power level, indoors	L _{WA}	39	dB(A)	For air-to-water HP: Rated air flow rate	or Q _{watersource}	х	m³/h
Sound power level, outdoors	L _{WA}	58	dB(A)	For water-to-water: Rated water flow rate	or Q _{brinesource}	х	m³/h
Emissions of nitrogen oxides	NO _x	0	mg/kWh				

For heat pump combination heater							
Declared load profile	-	L	_	Water heating energy efficiency	η wh	127	%
Daily electricity consumption	Q elec	2,22	kWh	Daily fuel consumption	Q fuel	Х	kWh
Annual energy consumption	AEC	809	kWh				

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Legend

For instructions on assembly, installation or maintenance, please refer to the operating manual. This document declares also information concerning disassembly, recycling and disposal.

(3) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(4) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.