Information requirements for heat pump space heaters and heat pump combination heaters						Source: 811/2013 & 813/2013
Model(s):	Outdoor unit:	RAS-3WHVRP1	Indoor unit:	RWD-3.0RW1E-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

Average

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (3)	Prated	6	kW	Seasonal space heating energy efficiency	η_s	125%	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 °C	Pdh	5,1	kW	Tj = – 7 °C	COPd	1,84	–
Tj = + 2 °C	Pdh	3,1	kW	Tj = + 2 °C	COPd	3,10	–
Tj = + 7 °C	Pdh	2,0	kW	Tj = + 7 °C	COPd	4,65	–
Tj = + 12 °C	Pdh	2,2	kW	Tj = + 12 °C	COPd	6,55	–
Tj = bivalent temperature	Pdh	5,1	kW	Tj = bivalent temperature	COPd	1,84	–
Tj = operation limit temperature	Pdh	5,0	kW	Tj = operation limit temperature	COPd	1,50	–
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	X	kW	For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	X	–
Bivalent temperature	Tbiv	-7	°C	For air-to-water HP : Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	X	kW	Cycling interval efficiency	COPcyc	X	–
				Heating water operating limit temperature	WTOL	55	°C
				Supplementary heater			
Degradation coefficient (4)	Cdh	0,9	—	Rated heat output (3)	Psup	1,0	kW
Anual Energy consumption	Q_{HE}	3723	kWh	Type of energy input	Electricity		

Colder

Rated heat output (3)	Prated	6	kW	Seasonal space heating energy efficiency	η_s	118%	%
				Supplementary heater			
				Rated heat output (3)	Psup	1,2	kW
Anual Energy consumption	Q_{HE}	4910	kWh	Type of energy input	Electricity		

Warmer

Rated heat output (3)	Prated	6	kW	Seasonal space heating energy efficiency	η_s	170%	%
				Supplementary heater			
				Rated heat output (3)	Psup	0	kW
Anual Energy consumption	Q_{HE}	1857	kWh	Type of energy input	Electricity		

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,012	kW
Thermostat-off mode	P_{TO}	0	kW
Standby mode	P_{SB}	0,012	kW
Crankcase heater mode	P_{CK}	0	kW

Other items			
Capacity control	fixed/variable	Variable	
Sound power level, indoors	L_{WA}	37	dB(A)
Sound power level, outdoors	L_{WA}	57	dB(A)

Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate	$Q_{airsource}$	2982	m^3/h
For air-to-water HP: Rated air flow rate	or $Q_{watersource}$	X	m^3/h
For water-to-water: Rated water flow rate	or $Q_{brinesource}$	X	m^3/h

For heat pump combination heater							
Declared load profile	-	L	—	Water heating energy efficiency	η wh	130	%
Daily electricity consumption	Q elec	2,15	kWh	Daily fuel consumption	Q fuel	X	kWh
Annual energy consumption	AEC	785	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.

rev7