## Information requirements for heat pump space heaters and heat pump combination heaters- 813/2013

Model: Samsung AE090JXYDEH	& Joule 200L	H.G Cycl	lone				
Air-to-water heat pump: Yes							
Water-to-water heat pump: No				- SAMS	UN	16	
Brine-to-water heat pump: No							
Low-temperature heat pump: Ye	es			_	1		
Equipped with a supplementary	heater: Yes				1 4		
Heat Pump combination heater:	Yes						
Parameters are declared for: lov	v-temperatu	re applic	ation	Manufacturing	Excellenc	e	
Parameters are declared for: ave	erage climate	e conditio	ons	_			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	176	%
Declared capacity for heating for part load at indoor temperature $20^{\rm o}{\rm C}$ and outdoor temperature $T_j$				Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature $\mathcal{T}_j$			
Tj = -7 °C	Pdh	6.00	kW	Tj = -7 °C	COPd	2.63	-
Tj = +2 °C	Pdh	3.70	kW	Tj = +2 °C	COPd	4.20	-
Tj = +7 °C	Pdh	2.40	kW	Tj = +7 °C	COPd	6.11	-
Tj = +12 °C	Pdh	2.20	kW	Tj = +12 °C	COPd	9.37	-
Tj = operation limit temperature	Pdh	6.80	kW	Tj = operation limit temperature	COPd	2.55	-
Bivalent temperature	Tbiv	-10.00	°C	Operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	0.9	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other	than active m	ode		Supplementary heater			
Off mode	P OFF	0.08	kW	Rated heat output	$P_{sup}$	3	kW
Thermostat-off mode	P <sub>TO</sub>	0.011	kW	·	Sup		
Standby mode	P <sub>SB</sub>	0.011	kW	Type of energy Input	Electricity		,
Crankcase heater mode	P <sub>CK</sub>	0	kW				
Other items							
Capacity control	Variable			Outdoor sound power level	L <sub>WA</sub> 63 dB		
					- WA		
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	145	%
Standby cylinder heat loss		2.064	kWh	Reference hot water temperature		51.07	°C
				DHW volume accounted for in tes	t	200	L
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