

COMMISSION REGULATION (EU) No 813/2013¹⁾

ECODESIGN REQUIREMENTS FOR HEAT PUMP SPACE HEATERS AND HEAT PUMP COMBINATION HEATERS¹⁾

A	Model(s) : AE090RXEDEG / AE200RNWSEG
B	Air-to-water heat pump : yes
C	Water-to-water heat pump : no
D	Brine-to-water heat pump : no
E	Low-temperature heat pump : no
F	Equipped with a supplementary heater : yes
G	Heat pump combination heater : yes
H	Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application.
I	Parameters shall be declared for average climate conditions.

Item ⁽¹⁾	Symbol ⁽²⁾	Value ⁽³⁾	Unit ⁽⁴⁾	
N	Rated heat output ⁽⁵⁾	Prated ⁽⁶⁾	8 kW	
Q	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
-	Tj = -7 °C	Pdh	7,1 kW	
-	Tj = +2 °C	Pdh	4,3 kW	
-	Tj = +7 °C	Pdh	2,8 kW	
-	Tj = +12 °C	Pdh	2,6 kW	
T	Tj = bivalent temperature	Pdh	7,1 kW	
U	Tj = operation limit temperature	Pdh	4,9 kW	
V	For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C)	Pdh	- kW	
W	Bivalent temperature	Tbiv	-7 °C	
Y	Cycling interval capacity for heating	Pcyc	- kW	
AB	Degradation co-efficient ⁽⁷⁾	Cdh	0,9	
AD	Power consumption in modes other than active mode			
AF	Off mode	Poff	0,022 kW	
AG	Thermostat-off mode	Pto	0,022 kW	
AH	Standby mode	Psb	0,022 kW	
AI	Crankcase heater mode	Pck	0,000 kW	
AL	Other items			
AM	Capacity control		variable ⁽⁸⁾	
AQ	Sound power level, indoors/outdoors	Lwa	40/64 dB	
AR	Emissions of nitrogen oxides	NOx	- mg/kWh	
AT	For heat pump combination heater			
AU	Declared load profile		L	
AW	Daily electricity consumption	Qelec	- kWh	
AY	Annual electricity consumption	AEC	860 kWh	
AZ	Contact details	Samsung Electronics, PO Box 12987, Blackrock, Co. Dublin, Ireland or Blackbushe Business Park, Yateley, Gu46 6GG, UK		
P	Seasonal space heating energy efficiency	η_s	127 %	
R	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
-	Tj = -7 °C	COPd ⁽⁹⁾	1,76	
-	Tj = +2 °C	COPd ⁽⁹⁾	3,23	
-	Tj = +7 °C	COPd ⁽⁹⁾	4,62	
-	Tj = +12 °C	COPd ⁽⁹⁾	5,88	
T	Tj = bivalent temperature	COPd ⁽⁹⁾	1,76	
U	Tj = operation limit temperature	COPd ⁽⁹⁾	1,35	
V	For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C)	COPd ⁽⁹⁾	-	
X	For air-to-water heat pumps: Operation limit temperature	TOL	-10 °C	
Z	Cycling interval efficiency	COPcyc ⁽¹⁰⁾	-	
AC	Heating water operating limit temperature	WTOL	- °C	
AE	Supplementary heater			
N	Rated heat output ⁽¹¹⁾	Psup	3,1 kW	
AJ	Type of energy input		Electrical ^(10K)	
AL	Other items			
AO	For air-to-water heat pumps : Rated air flow rate, outdoors		3960 m ³ /h ^(12P)	
AS	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		m ³ /h ^(12P)	
AT	For heat pump combination heater			
AV	Water heating energy efficiency	η_{wh}	119 %	
AX	Daily fuel consumption	Qfuel	- kWh	
AY	Annual electricity consumption	AEC	- GJ	

BA ⁽¹⁾ For heat pump space heaters and heat pump combination heaters, the rated that 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).

BB ⁽⁷⁾ If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

BC ⁽⁸⁾ Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product.

BD ⁽²⁾ If you are a professional looking for information on non-destructive disassembly, dismantling and battery removability, please send an email to: erims.sec@samsung.com