

COMMISSION REGULATION (EU) No 813/2013 ¹⁾

ECODESIGN REQUIREMENTS FOR HEAT PUMP SPACE HEATERS AND HEAT PUMP COMBINATION HEATERS ¹⁾

A	Model(s) : AE120RXYDGG
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 : no
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 ^(K)	Value ^(L)	Unit ^(M)
N	Rated heat output ^(*)	Prated ^(a)	12 kW
Q	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j		
-	T _j = -7 °C	P _{dh}	10,6 kW
-	T _j = +2 °C	P _{dh}	6,5 kW
-	T _j = +7 °C	P _{dh}	4,2 kW
-	T _j = +12 °C	P _{dh}	4,4 kW
T	T _j = bivalent temperature	P _{dh}	12,0 kW
U	T _j = operation limit temperature	P _{dh}	12,0 kW
V	For air-to-water heat pumps T _j = -15 °C (if TOL < -20 °C)	P _{dh}	- kW
W	Bivalent temperature	T _{biv}	-10 °C
Y	Cycling interval capacity for heating	P _{cyc}	- kW
AB	Degradation co-efficient ^(**)	C _{dh}	0,9
AD	Power consumption in modes other than active mode		
AF	Off mode	P _{off}	0,022 kW
AG	Thermostat-off mode	P _{to}	0,022 kW
AH	Standby mode	P _{sb}	0,022 kW
AI	Crankcase heater mode	P _{ck}	0,000 kW
AL	Other items		
AM	Capacity control	variable ^(AN)	
AQ	Sound power level, indoors/ outdoors	L _{WA}	-/64 dB
AR	Emissions of nitrogen oxides	NO _x	- mg/kWh
AT	For heat pump combination heater		
AU	Declared load profile	-	
AW	Daily electricity consumption	Q _{elec}	- kWh
AY	Annual electricity consumption	AEC	- 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	138 %
R	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j		
-	T _j = -7 °C	COP _d ^(S)	2,16
-	T _j = +2 °C	COP _d ^(S)	3,45
-	T _j = +7 °C	COP _d ^(S)	4,57
-	T _j = +12 °C	COP _d ^(S)	6,12
T	T _j = bivalent temperature	COP _d ^(S)	1,96
U	T _j = operation limit temperature	COP _d ^(S)	1,96
V	For air-to-water heat pumps T _j = -15 °C (if TOL < -20 °C)	COP _d ^(S)	-
X	For air-to-water heat pumps: Operation limit temperature	TOL	-10 °C
Z	Cycling interval efficiency	COP _{cyc} ^(AA)	-
AC	Heating water operating limit temperature	WTOL	- °C
AE	Supplementary heater		
N	Rated heat output ^(*)	P _{sup}	- kW
AJ	Type of energy input	Electrical ^(AK)	
AL	Other items		
AO	For air-to-water heat pumps : Rated air flow rate, outdoors	-	5940 m ³ /h ^(AP)
AS	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	- m ³ /h ^(AP)
AT	For heat pump combination heater		
AV	Water heating energy efficiency	η _{wh}	- %
AX	Daily fuel consumption	Q _{fuel}	- kWh
AY	Annual electricity consumption	AEC	- GJ

BA ^(*) 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(T_j).

BB ^(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

BC ⁽¹⁾ 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