

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

A	Model(s) : AE080CXYBGK
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 ⁽¹⁾	Prated (6)	8,0 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	2,4 kW	
T	Tj = bivalent temperature	Pdh	7,1 kW	
U	Tj = operation limit temperature	Pdh	7,3 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	Pych	- kW	
AB	Degradation co-efficient ^(*)	Cdh	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 (A8)		
AQ	Sound power level, indoors/outdoors	L _{WA}	-/59 dB	
AR	Emissions of nitrogen oxides	NOx	- 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, PO Box 12987, Blackrock, Co. Dublin. IE or Euro QA Lab. Saxony Way, Yateley, Hampshire GU46 6GG, UK Samsung Türkiye Merkez Ofis, Flatofis İstanbul İş Merkezi Otakçılar Caddesi No: 78 Kat 3 No: B3 İstanbul		

Item (1)	Symbol (2)	Value (3)	Unit (4)	
P	Seasonal space heating energy efficiency	η _s	139 %	
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 (5)	2,02 -	
-	Tj = +2 °C	COPd (5)	3,44 -	
-	Tj = +7 °C	COPd (5)	5,05 -	
-	Tj = +12 °C	COPd (5)	6,00 -	
T	Tj = bivalent temperature	COPd (5)	2,02 -	
U	Tj = operation limit temperature	COPd (5)	1,90 -	
V	For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C)	COPd (5)	- -	
X	For air-to-water heat pumps: Operation limit temperature	TOL	-10 °C	
Z	Cycling interval efficiency	COPcyc (A4)	- -	
AC	Heating water operating limit temperature	WTOL	- °C	
AE	Supplementary heater			
N	Rated heat output ⁽¹⁾	Psup	0,7 kW	
AJ	Type of energy input	Electrical (A6)		
AL	Other items			
AO	For air-to-water heat pumps : Rated air flow rate, outdoors	-	5520 m ³ /h (A7)	
AS	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	- m ³ /h (A7)	
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 ⁽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 ^(*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 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