COMMISSION REGULATION (EU) No 813/2013 [I)]

ECODESIGN REQUIREMENTS FOR SPACE HEATER [II)]

Model(s) :	AM050NXMDGR / AM160TNBFGB
Air-to-water heat pump : yes	
Water-to-water heat pump : no	
Brine-to-water heat pump : no	
Low-temperature heat pump : no	
Equipped with a supplementary heater : no	
Heat pump combination heater : no	

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.

Parameters shall be declared for average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	10	kW	Seasonal space heating energy efficiency	η_s	117	%
Declared capacity for heating for part load at indoor temperature 20 °C and				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = -7 ℃	Pdh	9.2	kW	Tj = -7 ℃	COPd	1.52	-
Tj = +2 ℃	Pdh	5.6	kW	Tj = +2 ℃	COPd	2.89	-
Tj = +7 ℃	Pdh	3.6	kW	Tj = +7 ℃	COPd	4.51	-
Tj = +12 ℃	Pdh	1.6	kW	Tj = +12 ℃	COPd	5.19	-
Tj = bivalent temperature	Pdh	9.2	kW	Tj = bivalent temperature	COPd	1.52	-
Tj = operation limit temperature	Pdh	10.4	kW	Tj = operation limit temperature	COPd	1.97	-
For air-to-water heat pumps Tj = -15 ℃ (if TOL < -20℃)	Pdh	-	kW	For air-to-water heat pumps Tj = -15 ℃ (if TOL < -20℃)	COPd	-	-
Bivalent temperature	Tbiv	0	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	Pcych	-7	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0	-	Heating water operating limit temperature	WTOL	-	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.032	kW	Rated heat output (*)	Psup	-	kW
Thermostat-off mode	P_{TO}	0.032	kW	Type of energy input			
Standby mode	P_{SB}	0.032	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items				Other items			
Capacity control		variable		For air-to-water heat pumps Rated air flow rate, outdoors	-	6000	m^3/h
Sound power level, indoors/outdoors	L_{WA}	60 / 70	dB	Forwater-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Emissions of nitrogen oxides	NO_x	-	mg/kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity comsumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh

Contact details	Samsung Electronics, PO Box 12987, Blackrock, Co. Dublin, Ireland or Blackbushe Business Park, Yateley, Gu46 6GG, UK

(*) 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).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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

If you are a professional looking information on non-destructive disassembly and dismantling.

please send a email to : erims.sec@samsung.com