



**TECHNICAL PARAMETERS FOR BOILER SPACE HEATERS & BOILER COMBINATION HEATERS
AS PER REGULATION 813/2013 (TABLE 1 - ANNEX II) (TABLE 7 - ANNEX V)**

Model(s)	Envirogreen Heatpac-Slimline Heatpac-Popular-Kitchen 12-18kW and 36-44kW Models						
Condensing Boiler	Yes						
Low Temperature (²) Boiler	No						
B11 Boiler	No						
Cogeneration Space Heater	No						
Combination Heater	Yes						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	<i>P_{rated}</i>	18	kW	Seasonal Space Heating Energy Efficiency	<i>η_s</i>	91.59	%
For boiler space heaters and boiler combination heaters: Useful Heat Output				For boiler space heaters and boiler combination heaters: Useful Efficiency			
At rated heat output and high temperature regime (¹)	<i>P₄</i>	18	kW	At rated heat output and high temperature regime (¹)	<i>η₄</i>	92.34	%
At 30 % of rated heat output and low temperature regime (²)	<i>P₁</i>	5.4	kW	At 30 % of rated heat output and low temperature regime (²)	<i>η₁</i>	98.46	%
Auxiliary Electricity Consumption				Other Items			
At Full Load	<i>el_{max}</i>	0.187	kW	Standby Heat Loss	<i>P_{stby}</i>	0.073	kW
At Part Load	<i>el_{min}</i>	0.057	kW	Ignition Burner Power Consumption	<i>P_{ign}</i>	0	kW
In Standby Mode	<i>P_{SB}</i>	0.003	kW	Annual Energy Consumption	<i>Q_{HE}</i>	56.6	kWh or GJ
				Sound Level Power Level, Indoors	<i>L_{WA}</i>	65	dB
				Emissions of Nitrogen Oxides	<i>No_x</i>	68	mg /kWh
Contact Details	Firebird Heating Solutions, Ballymakeera, Co. Cork P12 HK51, Ireland						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	<i>P_{rated}</i>	44	kW	Seasonal Space Heating Energy Efficiency	η_s	93.84	%
For boiler space heaters and boiler combination heaters: Useful Heat Output				For boiler space heaters and boiler combination heaters: Useful Efficiency			
At rated heat output and high temperature regime (¹)	<i>P₄</i>	44	kW	At rated heat output and high temperature regime (¹)	η_4	92.73	%
At 30 % of rated heat output and low temperature regime (²)	<i>P₁</i>	13.2	kW	At 30 % of rated heat output and low temperature regime (²)	η_1	98.87	%
Auxiliary Electricity Consumption				Other Items			
At Full Load	<i>el_{max}</i>	0.160	kW	Standby Heat Loss	<i>P_{stby}</i>	0.098	kW
At Part Load	<i>el_{min}</i>	0.055	kW	Ignition Burner Power Consumption	<i>P_{ign}</i>	0	kW
In Standby Mode	<i>P_{SB}</i>	0	kW	Annual Energy Consumption	<i>Q_{HE}</i>	135.0	kWh or GJ
				Sound Level Power Level, Indoors	<i>L_{WA}</i>	65	dB
				Emissions of Nitrogen Oxides	<i>No_x</i>	63	mg /kWh
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