



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 Systempac-System-Slimline Systempac 12-20, 20-26 & 26-35 kW 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	P_{rated}	20	kW	Seasonal Space Heating Energy Efficiency	η_s	92.53	%
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)	P_A	20	kW	At rated heat output and high temperature regime (¹)	η_A	92.72	%
At 30 % of rated heat output and low temperature regime (²)	P_L	6.0	kW	At 30 % of rated heat output and low temperature regime (²)	η_L	99.12	%
Auxiliary Electricity Consumption				Other Items			
At Full Load	e_{lmax}	0.178	kW	Standby Heat Loss	P_{sby}	0.073	kW
At Part Load	e_{lmin}	0.062	kW	Ignition Burner Power Consumption	P_{ign}	0	kW
In Standby Mode	P_{SB}	0	kW	Annual Energy Consumption	Q_{HE}	62.2	kWh or GJ
				Sound Level Power Level, Indoors	L_{WA}	65	dB
Emissions of Nitrogen Oxides					No_x	57	mg/kWh
Contact Details	Firebird Heating Solutions, Ballymakeera, Co. Cork P12 HK51, Ireland						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	P_{rated}	26	kW	Seasonal Space Heating Energy Efficiency	η_s	92.57	%
<i>For boiler space heaters and boiler combination heaters: Useful Heat Output</i>				<i>For boiler space heaters and boiler combination heaters: Useful Efficiency</i>			
At rated heat output and high temperature regime (¹)	P_A	26	kW	At rated heat output and high temperature regime (¹)	η_A	95.59	%
At 30 % of rated heat output and low temperature regime (²)	P_L	7.8	kW	At 30 % of rated heat output and low temperature regime (²)	η_L	98.13	%
Auxiliary Electricity Consumption				Other Items			
At Full Load	e_{lmax}	0.184	kW	Standby Heat Loss	P_{sby}	0.073	kW
At Part Load	e_{lmin}	0.046	kW	Ignition Burner Power Consumption	P_{ign}	0	kW
In Standby Mode	P_{SB}	0	kW	Annual Energy Consumption	Q_{HE}	80.9	kWh or GJ
				Sound Level Power Level, Indoors	L_{WA}	65	dB
				Emissions of Nitrogen Oxides	No_x	74	mg /kWh
Contact Details	Firebird Heating Solutions, Ballymakeera, Co. Cork P12 HK51, Ireland						

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	P_{rated}	35	kW	Seasonal Space Heating Energy Efficiency	η_s	92.56	%
<i>For boiler space heaters and boiler combination heaters: Useful Heat Output</i>				<i>For boiler space heaters and boiler combination heaters: Useful Efficiency</i>			
At rated heat output and high temperature regime (¹)	P_A	35	kW	At rated heat output and high temperature regime (¹)	η_A	91.96	%
At 30 % of rated heat output and low temperature regime (²)	P_L	10.5	kW	At 30 % of rated heat output and low temperature regime (²)	η_L	97.8	%
Auxiliary Electricity Consumption				Other Items			
At Full Load	e_{lmax}	0.165	kW	Standby Heat Loss	P_{sby}	0.073	kW
At Part Load	e_{lmin}	0.055	kW	Ignition Burner Power Consumption	P_{ign}	0	kW
In Standby Mode	P_{SB}	0	kW	Annual Energy Consumption	Q_{HE}	108.9	kWh or GJ
				Sound Level Power Level, Indoors	L_{WA}	65	dB
				Emissions of Nitrogen Oxides	No_x	61	mg /kWh
Contact Details	Firebird Heating Solutions, Ballymakeera, Co. Cork P12 HK51, Ireland						