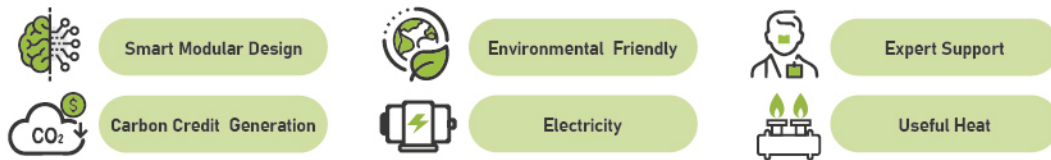


Pyrogreen Energy is a leading company in the manufacturing of eco-friendly carbonization & torrefaction systems and providing biochar & biocoal solutions for the recycling of biomass residuals. Our mission is to create and deploy biorenewable technologies that enhance soil fertility and combat climate change through CO₂ sequestration. We support our clients in making use of biomass waste, boosting efficiency, and generating extra revenue while simultaneously reducing carbon emissions.



Pyrolysis of Biomass Waste and Production of Power and Useable Heat by Updraft Fixed Bed Carbonizer

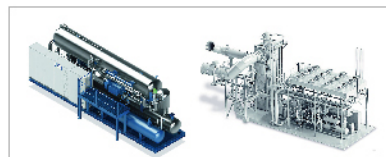


Model		UFBC1000	UFBC1500	UFBC2000	UFBC2500	UFBC3000	UFBC4000	UFBC5000
Carbonizer Type		Updraft Fixed Bed Carbonizer						
Range of Biomass Input		Wood chips, bamboo chips, Coconut Shell and etc.						
Size Requirement		20-100 mm						
Moisture Requirement		≤ 30%						
Biomass Consumption(Kg/H)		1000	1500	2000	2500	3000	4000	5000
Heat Value of Gas		≥ 1200 Kcal/Nm ³						
Biochar output (Kg/H)		≤ 150	≤ 225	≤ 300	≤ 375	≤ 450	≤ 600	≤ 750
Heat Output	10*Kcal/H	≤ 1,800	≤ 2,600	≤ 3,500	≤ 4,500	≤ 5,200	≤ 7,000	≤ 8,900
	KW/H	≤ 2,000	≤ 3,000	≤ 4,000	≤ 5,000	≤ 6,000	≤ 8,000	≤ 10,000

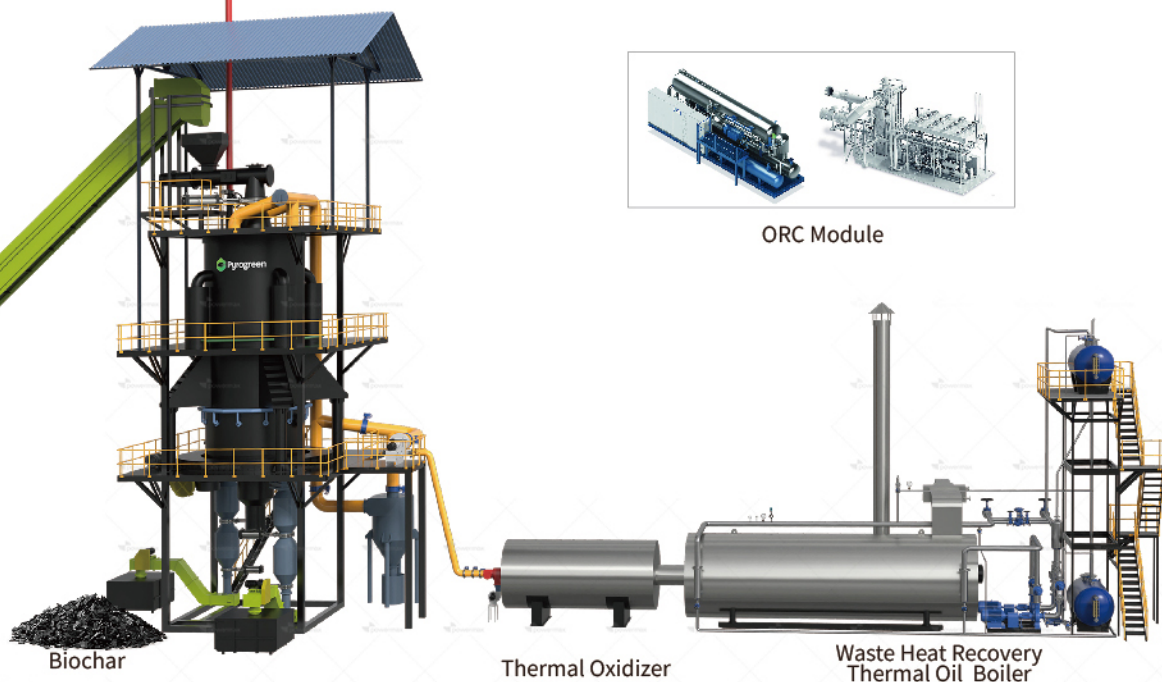
Pyrolysis of Biomass Waste and Production of Power and Useable Heat by Updraft Fixed Bed Carbonizer



Biomass



ORC Module



Biochar

Thermal Oxidizer

Waste Heat Recovery
Thermal Oil Boiler

Model		UFBC1000	UFBC1500	UFBC2000	UFBC2500	UFBC3000	UFBC4000	UFBC5000
Carbonizer Type		Updraft Fixed Bed Carbonizer						
Range of Biomass Input		Wood chips, bamboo chips, Coconut Shell and etc.						
Size Requirement		20-100 mm						
Moisture Requirement		≤ 30%						
Biomass Consumption(Kg/H)		1000	1500	2000	2500	3000	4000	5000
Heat Value of Gas		≥ 1200 Kcal/Nm³						
Biochar output (Kg/H)		≤ 150	≤ 225	≤ 300	≤ 375	≤ 450	≤ 600	≤ 750
Heat Output	10*Kcal/H	≤ 1,800	≤ 2,600	≤ 3,500	≤ 4,500	≤ 5,200	≤ 7,000	≤ 8,900
	KW/H	≤ 2,000	≤ 3,000	≤ 4,000	≤ 5,000	≤ 6,000	≤ 8,000	≤ 10,000

