



Thermal Treatment System



The EcoChar Phoenix 8000 is a highly advanced wood debris thermal treatment unit that decreases wood waste volume and increases revenue. If you have a high-speed grinder or high-torque shredder you need an EcoChar system to process your wood waste into sought-after biochar.

EcoChar turns your wood waste and green waste into savings and new revenue. It eliminates landfill tipping fees, lets you charge customers to accept their waste wood, produces a valuable biochar end-product, and allows you to add biochar to your compost.



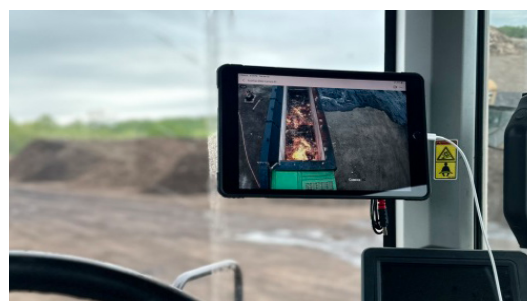
Phoenix 8000



INNOVATIVE FEATURES ON THE ECOCHAR PHOENIX 8000



Intelligent Combustion Management System controls the process to ensure optimal operation and biochar production.



Full color, 8-megapixel network camera with remote log-in to monitor the process.



Refractory concrete panels and door rated to 3000° F.

REDUCE WOOD VOLUME UP TO 90%

Cost effective and environmentally friendly.

There is a connection between fire and the Earth. It transforms environmental elements, fosters new plant growth, and is a catalyst for biological diversity and a healthy ecosystem.

Biochar is created when organic waste material is superheated in a low-oxygen environment. It's an eco-friendly soil amendment that turns your renewable waste materials into revenue and is a true circular economy solution.

A centuries old idea modernized.

Biochar production is called pyrolysis: heating green waste with little or no oxygen to produce a carbon-rich product that can be tilled into soil. It acts like a sponge and retains nutrients and water, allows farmers and gardeners to use less fertilizer, reduces pollutants in soils, and provides better aeration for clay soil.

The EcoChar Phoenix 8000 Thermal Treatment System processes up to 12 tons of dry, clean wood per hour (depending on composition and moisture content of feedstock). Simply feed material into the self-contained unit and the Intelligent Combustion Management System controls the entire process. Biochar is then quenched and discharged via conveyor.

No grinding or shredding is needed, making it perfect for land clearing and forestry, agricultural waste, clean demolition debris, and municipal green waste operations.

High productivity, low operating cost.

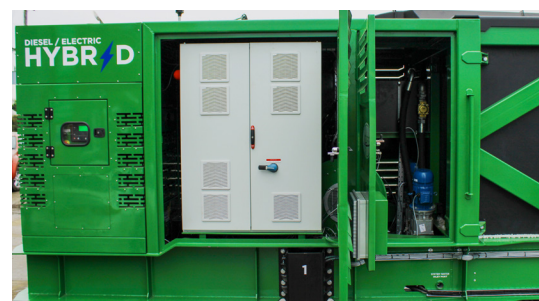
Large throughput allows for maximum material conversion, freeing up valuable space in your yard. Greatly reduces debris transportation and disposal costs for onsite use. Most importantly, transforms waste into revenue.



Auger discharge with variable water quench system driven by electric motor and gearbox.



Temperature monitoring with 6 thermocouples rated to 3000° F.



Diesel / electric hybrid power with FPT F36 3.6 liter certified EPA Tier 5 Final engine.

ECOCHAR THERMAL TREATMENT SYSTEM SPECS

DRIVE

TYPE
POWER
EMISSIONS
FUEL TANK
AD BLUE TANK

Phoenix 8000

FPT F36 3.6 liter
151 KW Generator
U.S. EPA Tier 5 Final
132 gallons
12 gallons

CHASSIS

TYPE
REFRACTORY CONCREAT
HEAT MONITORING
HEAT RATING

2 speed steel tracks
20 panels and entry door contain heat
6 thermocouples
3000° F

CONTROL SYSTEM

COMBUSTION
CAMERA SYSTEM

Intelligent Combustion Managment System
(I.C.M.S)
full color, 8mp network camera with
remote login

DISCHARGE

WATER PUMP
WATER REQUIREMENTS
AUGER
CONVEYOR

electric motor driven; 122-gallon buffer
water tank
Up to 36 gallons per minute water flow
(3) 28"-10" long augers
5' 3" length
hydraulic fold
stainless steel mesh belt



POPULAR APPLICATIONS



Green Waste



Forestry



Wood Waste



Land Clearing



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ECO-127 4/25 2000