

## CHARBOSS®



**General:** CharBoss®, a Patented self-contained, completely assembled above ground Air Curtain Burner with a refractory lined burn-container that is triple-axle trailer mounted and powered by an onboard Diesel engine. The FireBox is raised and lowered by a hydraulic lift system. Designed for the elimination of forest slash, agricultural vegetative waste, land-clearing debris, green waste, and the creation of Biochar. The onboard automatic system creates Biochar, conveys it out the back of the machine into a small quenching pan. The Biochar is ready for use as a soil additive. T26 is in compliance with the requirements of U.S. EPA 40CFR60. Shipped from the factory street-legal with VIN completely assembled ready for immediate use.

1	Power	Three cylinder liquid cooled Diesel engine, 24.6 HP (HATZ 3H50T or equivalent), full enclosure; security locks around power source; Emission certified U.S. EPA Tier 4.	
2	Firebox	4 in. (101 mm) thick side walls; Refractory panels filled with proprietary thermal-ceramic material cast into steel trays; panels kiln dried before assembly. Firebox and transport system is raised and lowered by hydraulic actuators. The Firebox has a conveyor belt to remove the biochar into a quenching pan.	
3	Running Gear	Patented trailer design includes a fully welded steel frame, triple torsion axles and heavy duty tires; Self-adjusting electric brakes on all wheels: Break-away system; Heavy duty adjustable hitch, pintle or ball type (2 <sup>5</sup> / <sub>16</sub> in. (58.75 mm) for towing; Mechanical jack stand. Standard trailer lighting package.	
4	Instrument Panel	Key switch, hydraulic system controls and gauges, tachometer, hour meter, fuel gauge, oil pressure and water temperature indicators with safety shutdown features; Lockable hatches.	
5	Air Curtain	Custom heavy duty direct coupled air fan; Steel manifold welded in position.	
6	Fuel Tank	20 gal. (76 L) fuel tank capacity allows for approximately 18 hr. of run time	
7	Hydraulics	Hydraulic rams lower the firebox for operation and raise it for ash removal and transport; The biochar system is hydraulically powered, it creates the biochar and deliveries it to the rear quenching device.	
8	Biochar	Biochar production: approx. 40 gal/hr. or 5 ft <sup>3</sup> /hr. (0.15 m <sup>3</sup> /hr.) (See Note)	
9	Average Through-put	½-1 t/hr. of forest slash, (See Note)	
10	Fuel Consumption	Approx. 1.1 gal/hr. (4.2 L/hr.) Ultra Low Sulfur Diesel Fuel	
11	Water	Quenching Biochar requires approx. 12 gal/hr.	
12	Weight	17,500 lb. (7900 kg) Tongue Weight:. 1,400 lb. (635 kg)	
13	Dimensions	Overall Size L × W × H	FireBox L × W × H
		22' × 7' 8" × 6' 8" 6.7 m × 2.3 m × 2.0 m	12' × 4' × 4' 3.7 m × 1.2 m × 1.2 m

**Note:** Achievable through-put depends on several variables, especially the nature of the wood waste material, the burn chamber temperature and the loading rate. All weights and dimensions are approximate and metric conversions are rounded. Specifications are subject to change without notice. CharBoss® is street legal Mobile Machinery and offered as "Non-self-propelled Agricultural/Forestry/Construction Equipment".

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