



## FIRE BOX SPECIFICATIONS

# S-111



**General:** A self-contained, completely assembled above ground Air Curtain Burner (air curtain incinerator or FireBox) with a refractory lined burn-container for portable and permanent (stationary) applications. Designed for the high temperature burning of forest slash, land clearing debris, green waste, storm debris, and other waste streams in compliance with the requirements of US EPA 40CFR60.

Shipped from the factory completely assembled ready for immediate use and does not require disassembly for relocation. The firebox is also used for disaster recovery and Homeland Security contingencies and for certain MSW disposal applications. Electrically powered version available for permanent (stationary) installations.

1	Power	Four cylinder Turbo Diesel Engine 59 HP (Kubota V2403-TE or equivalent engine); full enclosure; security locks; Emission certified US EPA Tier4 compliant; Engine mounted PTO	
2	Burn Container (Firebox)	4" (102 mm) thick refractory panels filled with proprietary thermal ceramic material; Two full height rear doors; Two ignition holes	
3	Safety Systems	Engine over temperature shut down; Loss of cooling fluid shutdown; Loss of oil pressure shutdown	
4	Instrument Panel	Key switch, tachometer, hour meter, fuel gauge, oil pressure and water temperature indicators with safety shutdown feature and throttle; Lockable instrument panel	
5	Air Supply	Custom heavy duty fan	
6	Fuel Tank	60 Gallon (227 L) minimum fuel tank capacity	
7	Transportation & Set-up	Shipped completely assembled; Ready for immediate use; Lifting pads provided for crane lifting; Front deck security enclosure included as standard feature	
8	Options	Ash clean-out rake; Ember screen; Electric motor; Heat recovery; Rough-terrain removable dolly	
9	Average Through-put	1-2 Tons per Hour (Average – See Note)	
10	Fuel Consumption	Approx. 2.5 Gal/Hr (9.5 L/Hr)	
11	Weight	22,500 lbs (10,200kg)	
12	Dimensions	Overall Size L x W x H	Fire Box L x W x H
		19' x 7' 5" x 7' 8" (5.8m x 2.2m x 2.3m)	11' x 5' x 6' (3.35m x 1.5m x 1.8m)

**Note:** Achievable through-put depends on several variables, especially the nature of the waste material, the burn chamber temperature and the loading rate. All weights and dimensions are approximate and metric conversions are rounded. Subject to change without notice.

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