

**AIR BURNERS, LLC**  
**S-111 FIRE BOX SPECIFICATIONS**

**General:** A self contained, completely assembled above ground Air Curtain Incinerator (air curtain burner) with a refractory lined firebox for permanent (stationary) installations or for applications requiring a portable unit. Designed for the high temperature burning of forest slash, land clearing debris, green waste, storm debris and other untreated wood waste with performance exceeding the requirements of US EPA 40CFR60.

Shipped from the factory completely assembled ready for immediate use and does not require disassembly for relocation. These fireboxes are 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 Source	Perkins Model 403 Diesel Engine (or equivalent) engine, full enclosure; security locks around power source; emission certified US EPA Tier3	
2	Drive Train	Direct drive, engine mounted fan.	
3	Burn Container (Firebox)	4" (102 mm) thick walls; Refractory panels filled with proprietary thermal ceramic material cast into steel trays; panels kiln cured before assembly with proprietary stress relieving and crack propagation reduction features; 2 full height rear doors with 2 hinges each and safety latch feature; 1 ignition hole with safety hatch	
4	Safety Systems	Over temperature shut down: Loss of cooling fluid shutdown.	
5	Electrical System	12 V DC with engine mounted alternator	
6	Instrument Panel	Start/Stop switch, tachometer, hour meter, oil pressure and water temperature indicators with safety shutdown feature and adjustable locking throttle; lockable instrument panel	
7	Fan	Custom fan	
8	Manifold	Welded 10 gauge steel assembly	
9	Skid Deck / Equipment Deck	½" (12.7 mm) steel plate, all solid-weld construction equipment deck with protective brush and ember guard; proprietary "cool wall" ventilated firewall for operator and equipment protection; diamond plate anti-slip top surface. Full engine enclosure to protect against debris build-up which may become a fire hazard and to provide operator safety from rotating parts. Fully enclosed bottom surface to minimize ground pressure	
10	Miscellaneous	30 gallon (113 liters) minimum fuel tank capacity	
11	Air Quality	Meets or exceeds applicable US-EPA regulations	
12	Transportation & Set-up	Shipped completely assembled - No on-site set-up; Ready for immediate use; Transportable by "tilt-bed trailer", "sliding-axle trailer", standard flatbed or other such trailer systems; Unit is skid mounted and it has no floor; 2 doors in back; Lifting pads provided for crane lifting	
13	Options	Front deck security enclosure; Ember screen; Electric motor; Heat recovery; Hook-lift/Roll-off	
14	Average Through-put	0.5-2 Tons per Hour	
15	Fuel Consumption	Approx. 1.5 Gal/Hr. (5.7 L/Hr.)	
16	Weight	22,500 lbs (10,200kg)	
17	Dimensions	Overall Size L x W x H	Fire Box L x W x H
		16' x 7' 5" x 7' 8" (5m x 2.2m x 2.3m)	16' x 5' x 6' (4.9m x 1.5m x 1.8m)

Note: All weights and dimensions are approximate and metric conversions are rounded. Subject to change without notice.

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