

AIR BURNERS, INC.
S-321 FIRE BOX SPECIFICATIONS

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 Source	Four cylinder Diesel Engine 85 HP (Kubota V3600-TE or equivalent engine); full enclosure; security locks around power source; Emission certified US EPA Tier3	
2	Drive Train	Engine mounted PTO (Power-take-off) with direct coupling drive to fan; Manual engage / disengage lever	
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 3 hinges each and safety latch feature; 2 ignition holes with safety hatches	
4	Safety Systems	Engine over temperature shut down; Loss of cooling fluid shutdown; Loss of oil pressure shutdown	
5	Electrical System	12 Volt heavy duty battery	
6	Instrument Panel	Key switch, tachometer, hour meter, fuel gauge, oil pressure and water temperature indicators with safety shutdown feature and adjustable locking throttle; lockable instrument panel	
7	Fan	Custom heavy duty industrial fan; Center hung shaft, backward incline blades; Bolted access door for maintenance	
8	Manifold	Minimum ¼" (3.2 mm) steel, solid-weld assembly; heavy duty steel construction with patented nozzles and guide vanes	
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	65 gallon (246 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 single-drop deck or low-boy trailer or other such trailer systems; Load is over-size; Unit is skid mounted and it has no floor; 2 doors in back; Lifting pads provided for crane lifting	
13	Options	Ash clean-out rake; Front deck security enclosure; Ember screen; Electric motor; Heat recovery; Rough-terrain removable dolly; Electric power generation (PG FireBox Series)	
14	Average Through-put	5-8 Tons per Hour	
15	Fuel Consumption	Approx. 3.5 Gal/Hr. (13.3 L/Hr.)	
16	Weight	48,600 lbs (22,000kg)	
17	Dimensions	Overall Size L x W x H	Fire Box L x W x H
		31' 4" x 11' 10" x9' 7" (9.6m x 3.8m x 2.9m)	21' 2" x 8' 5" x 8' 1" (6.5m x 2.6m x 2.46m)

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

AIR BURNERS, INC.
4390 Cargo Way, Palm City, FL 34990
Phone 772-220-7303 - FAX 772-220-7302
E-mail: info@airburners.com - www.airburners.com