

FIREBOX SPECIFICATIONS



General: A self-contained, completely assembled above ground Air Curtain Burner (air curtain incinerator or FireBox) with a refractory lined burn-container for stationary applications. Designed for the high temperature reduction of wood waste in forestry, agriculture, land clearing, at landfills, transfer stations and other waste streams in compliance with the requirements of US EPA 40CFR60.

Shipped from the factory completely assembled ready for immediate use upon connection to a power grid and does not require disassembly for relocation. The FireBox is also used for disaster recovery and Homeland Security contingencies.

1	Power	75 HP Premium Electric Motor, 3-Phase 460V, 60 Hz or 50 Hz; Full enclosure; Security locks; NEMA IV Enclosure for VFD Speed Control.	
2	Burn Container (FireBox)	4" (102 mm) thick refractory wall panels filled with proprietary thermal ceramic material; Two full height refractory rear doors; Three ignition holes; FireBox open to the ground	
3	Safety Systems	Brown-outs (voltage deficiency or under voltage) or excessive voltage spikes will cause default shut-downs by the VFD protective circuitry to prevent overload conditions on the motor side. Grounding lug provided	
4	Control Panel	NEMA IV enclosure with external power switch, preprogrammed air fan speed setting switch and emergency shut-off switch; hour meter	
5	Air Supply	Custom heavy duty fan coupled directly to motor	
6	Power-in	Max 480V balanced 3-Phase power, 60 Hz or 50 Hz (Other voltages available)	
7	Transportation & Set-up	Shipped completely assembled; Ready for immediate use; Lifting pads provided for crane lifting; Electrical hook-up to power grid to be performed by licensed electrician pursuant to applicable local codes	
8	Options	Ash clean-out rake with 1" (25mm) blank steel faceplate, interface to accommodate loader to be attached by end-user	
9	Average Through-put	11-13 Tons per Hour (Average – See Note)	
10	Power Consumption	Approximately 52 kW at full FireBox fan speed	
11	Weight	59,000 lbs. (26,760 kg)	
12	Dimensions	Overall Size L × W × H	Fire Box L × W × H
		40' 4" × 11' 10" × 9' 6" (12.3 m × 3.6 m × 2.9 m)	30' 2" × 8' 5" × 8' 1" (9.2 m × 2.6 m × 2.5 m)

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. Specifications are subject to change without notice.

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