

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	30 HP Premium Electric Motor, 3-Phase 460V, 60Hz 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; Two 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, 60Hz or 50Hz	
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 standard universal quick disconnect for Skidsteer or Bobcat; Ember screen	
9	Average Through-put	3-5 Tons per Hour (Average – See Note)	
10	Power Consumption	Approximately 20 kW	
11	Weight	30,100 lbs. (13,650kg)	
12	Dimensions	Overall Size L x W x H	Fire Box L x W x H
		27' 3" x 7' 2" x 7' 4" (8.3m x 2.2m x 2.4m)	19' x 5' x 6' (5.8m 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. Specifications are subject to change without notice.

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