

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 and mobile 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 and does not require disassembly for relocation. The FireBox is also used for disaster recovery and Department of Homeland Security contingencies. Electrically powered version (S223E) available for permanent (stationary) installations.

1	Power	Four-cylinder Turbo Diesel Engine 74.5 HP, HATZ Model 4H50TIC (Does not require DEF) or equivalent engine; Emissions certified US EPA Tier 4 FINAL; Engine mounted PTO	
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	Engine over temperature and overspeed shut down; Loss of cooling fluid shutdown; Loss of oil pressure shutdown; Lockable steel front deck security enclosure	
4	Instrument Panel	MBW electronic engine control with preset throttle settings: key switch, tachometer, hour meter, fuel gauge, oil pressure and water temperature and safety shutdown features	
5	Air Supply	Custom heavy duty fan	
6	Fuel Tank	58 Gallon (220L) minimum fuel tank capacity	
7	Transportation & Set-up	Shipped completely assembled; Ready for immediate use; Lifting pads provided for crane lifting; Unit can be dragged onsite on its skids	
8	Options	Ash clean-out rake with standard universal quick disconnect for <i>Skidsteer</i> or <i>Bobcat</i> ;	
9	Average Through-put	7-9 Tons per Hour (Average – See Note)	
10	Fuel Consumption	Approx. 2.5 gal/hr. (9.5 L/hr.)	
11	Weight	40,338 lbs. (18,297 kg)	
12	Dimensions	Overall Size L × W × H	Fire Box L × W × H
		33' 3" × 8' 6" × 8' 6" (10.2 m × 2.6 m × 2.6 m)	22' 11" × 6' 2" × 7' 1" (7 m × 1.9 m × 2.2 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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Rev. 05.18.2022