



### Incinerator System Overview:

Our [Solid Waste Disposal Incinerator](#) is a modular, multiple chambered, controlled air, solid waste thermal oxidizer system (incinerator), engineered for the unique demands of mixed composition and solid waste disposal.

An advanced cyclonic secondary combustion chamber provides superior, turbulent thermal oxidation of combustion gases with over 1 second retention std., for environmentally safe stack exhaust to atmosphere.

Utilization of weight saving refractory materials and modular construction enhances ease of erection and installation as well as improved maintenance of the system.



**System Capacity:** 1.5 MMBtu/hr waste combustion, providing 175-250 lb/hr (80-114 kg/hr) processing capacity for mixed waste streams with an average gross HHV of up to 5500-8500 Btu/lb.

**Batch Operation:** Approx. 2.4 yd<sup>3</sup> (1.8 m<sup>3</sup>) per 4—6 hour operation cycle

Intermittent Feed (w/optional loader): 1 yd<sup>3</sup>/hr (.77 m<sup>3</sup>/hr) up to 8 hrs/day



**Solid Waste Disposal Incinerator Model A1.5 - Technical Specifications:**

**Dimensions:**

Length overall: 9'-6" (2896 mm) batch system w/o loader  
18'-6" (5639 mm) w/optional loader system  
Width overall: 7'-6" (2820 mm)  
Height (w/o stack): 10'-0" (3048 mm)  
Approx. weight: 14,650 lbs. (6659 kg) w/o loader

**Primary chamber:**

Type: fixed hearth  
Chamber volume: 86 cu. ft.  
Hearth Area: 14 sq. ft.  
Burner capacity: .28-.45 MMBtu/hr. (Hi-Lo-Off control)  
Construction: skid - 6", 10.5#/ft., A36 channel, shell - .250" thick, A36 plate lining - 4", 3000°F 750 psi, (Plicast 3100KK or equal) insulation - 1"1900°F Fiber (ASTM C612093, type V)  
Approx. weight: 8650 lbs. (3932 kg)

**Secondary chamber:**

Type: cyclonic thermal oxidizer with 1+ sec. r/t @ 1600°F (850°C)  
Chamber volume: 51 cu. ft.  
Burner capacity: .35-1.12 MMBtu/hr. (full modulating, excess air control)  
Construction: shell - .250" thick, A36 plate, lining - 3", 3000°F 750 psi, (Plicast 3100KK or equal) insulation - 1"1900°F Fiber (ASTM C612093, type V)  
Approx. weight: 4500 lbs. (2045 kg)

**Optional Hydraulic Ram Loader**

**Electrical required:** Single point - 230/460V, 3  $\phi$ , 60 z, 25/25 amp

**Combustion air:**

Supply to under-fire and secondary air injection.  
3 hp, 230/460 V, 3  $\phi$ , 60 Hz  
750 cfm @ 18° W.C. pressure





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**System Control:**

Siemens S-7 series PLC with touch-screen operator interface

To include:

- Primary & secondary chamber temperature control
- Temperature actuated fuel and air control
- Burner interface, status and reset access\*\*
- System status and alarm display
- Hydraulic systems control (applicable with optional loader)
- \*\*Discrete, UL, CSA, FM & IRI burner monitoring/control w/U.V. flame supervision provided for each burner

**Exhaust Stack:**

Std. refractory lined

Construction:

- (2-4' sections with s.s. no-loss cap & spark screen)
- shell - 0 gage, A36 carbon steel
- lining - 3" 2400oF, 175 psi, (Plicast AL-Tuff LWI-24 or equal)
- Wt. - 155 lb/ft (70.45 kg/ft.)

