



# Helios

## 2.0 Solid Waste Incinerator

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The [Helios Fixed Hearth 2.0](#) Solid Waste Incinerator is a great way to safely dispose of drugs, trash, medical waste and other solid waste streams. The technology for these units is trusted by hospitals, waste disposal facilities and air ports to effectively dispose of unwanted materials.



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## 2.0 Solid Waste CX Incinerator

### System Overview

The [Helios 2.0](#) Solid Waste Incinerator is a large scale waste disposal system designed to accommodate solid waste streams generated from industrial facilities, businesses, waste management plants, and airports.

Constructed as a dual chamber incineration system, these models are better able to control incineration, temperatures, and emissions generated from the unit. This creates a complete system that can handle the safe disposal of trash, debris, medical waste, animal waste, and other combustible materials.

Helios incinerators are built with two chambers and include a complete control system. This system regulates the temperature of the unit and systematically adds air to meet the needs of your waste type

These models are designed to provide fast, easy and hassle-free disposal. Most set up for these units involves filling the gas tank and plugging the unit into a power source.

What can be placed in these incinerators?

This dual-chamber system is equipped to handle several different materials including the following:

- Medical Waste Materials (such as Needles, Pads, etc.)
- Equipment from Labs, Dental Offices and Health Organization
- Solid Waste Materials
- Prescription Drugs
- Confiscated Materials
- Trash (alternative to an open pit burn)
- Regulated waste (i.e. Internationally Regulated USDA/CBP waste)

Need more information?

Not sure if this unit is right for you?

Give us a call at **772-646-0597** or toll free at **888-703-9889** to discuss your disposal requirements.



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<b>System Overview:</b>	A modular, multiple chambered, controlled air, solid waste thermal oxidizer system (incinerator), engineered for the unique demands of mixed composition and solid waste disposal.
<b>System Capacity:</b>	2.0 MMBtu/hr waste combustion, providing 210-320 lb/hr (95-145 kg/hr) processing capacity for mixed waste streams with an average gross HHV of up to 5500-8500 Btu/lb.
<b>Batch Operation:</b>	Approx. 3 yd <sup>3</sup> (2.29 m <sup>3</sup> ) per batch cycle.
<b>Electrical required:</b>	Single point - 230/460V, 3Ø, 60 Hz, 25/15 amp
<b>Dimensions:</b>	Length overall: 11'-6" (2896mm) batch system w/o loader 20'-6" (5639mm) w/optional loader system Width overall: 9'-3" (2820mm) Height (w/o stack): 10'-0" (3048 mm) Approx. weight: 16,500 lbs. (67500 kg) w/o loader
<b>Primary chamber Type:</b>	Type: Fixed hearth, with controlled under-fir air injection Chamber volume: 100 cu. ft. Burner capacity: .6 MMBtu/hr. (Hi-Lo-Off control) Construction: Skid - 6", 10.5#/ft., A36 channel Shell - .250" thick, A36 plate Lining - 4", 2800oF 750 psi, (Plicast 3100KK or equal) Insulation - 1" 1900oF Fiber (ASTM C612093, type V) Approx. weight: 9000 lbs. (4090 kg)
<b>Hearth Area:</b>	20 sq. ft.
<b>Burner capacity:</b>	Intermittent Feed (w/optional loader): 1.26-2 yd <sup>3</sup> /hr (1.6-1.8m <sup>3</sup> /hr) up to 8 hrs/day.
<b>Secondary chamber:</b>	Type: cyclonic thermal oxidizer with 1+ sec. r/t @ 1600oF (850oC) Chamber volume: 59.5 cu. ft. Burner capacity: 1.43 MMBtu/hr. (full modulating, excess air control) Construction: Shell - .250" thick, A36 plate Lining - 3", 2800oF 750 psi, (Plicast 3100KK or equal) Insulation - 1" 1900oF Fiber (ASTM C612093, type V) Approx. weight: 6000 lbs. (2727 kg)s
<b>Combustion air:</b>	Supply to under-fire and secondary air injection. 3 hp, 230/460V, 3Ø, 60 Hz 850 cfm @ 18o W.C. pressure
<b>Systems Control:</b>	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 with U.V. flame supervision provided for each burner.
<b>Exhaust Stack:</b>	Std. refractory lined. (2-4' sections with s.s. no-loss cap & spark screen) shell - 10 gage, A36 carbon steel lining - 3" 2400oF, 175 psi, (Plicast AL-Tuff LWI-24 or equal) Wt. - 155 lb/ft (70.45 kg/ft.)
<b>Optional Loader:</b>	Type: Hydraulic ram feed (optional cart tip hopper load available) Hopper volume: 14 cu. ft. (.4 m <sup>3</sup> ) Power unit: 5hp, 230/460V, 3Ø, 1800 psi Hydraulic cylinders: 2500 psi: Charge door - two 2" bore, 30" stroke Charging ram- two 2" bore, 36" stroke Hopper lid - one 2.5" bore, 16" stroke Hopper loader - two 2.5" bore, 18" stroke Charging frequency: 10-15 minutes, up to 4-5 times per hour. Approximate weight: 5,000 lbs. (2273 kg)

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For more complete information on GEIWorks products and solutions, visit us on the Web at [www.geiworks.com](http://www.geiworks.com).

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