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 airports to effectively dispose of unwanted materials.
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.
System Overview: A modular, multiple chambered, controlled air, solid waste thermal oxidizer system (incinerator), engineered for the unique demands of mixed composition and solid waste disposal.

System Capacity: 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.

Batch Operation: Approx. 3 yd³ (2.29 m³) per batch cycle.

Electrical required: Single point - 230/460V, 3Ø, 60 Hz, 25/15 amp

Dimensions:
- 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. (7500 kg) w/o loader

Primary chamber Type:
- 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)

Hearth Area: 20 sq. ft.

Burner capacity:
- Intermittent Feed (w/optional loader): 1.26-2 yd³/hr (1.6-1.8m³/hr) up to 8 hrs/day.

Secondary chamber:
- 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)

Combustion air:
- Supply to under-fire and secondary air injection. 3 hp, 230/460 V, 3Ø, 60 Hz 850 cfm @ 18o WC. pressure

Systems 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 with U.V. flame supervision provided for each burner.

Exhaust Stack:
- 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.)

Optional Loader:
- Type: Hydraulic ram feed (optional cart tip hopper load available)
  - Hopper volume: 14 cu. ft. (.4 m³)
  - Power unit: Shp, 230/460 V, 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)
For more complete information on GEI Works products and solutions, visit us on the Web at www.geiworks.com.

Toll Free: 1-888-703-9889  |  Phone: (1+) 772-646-0597  |  info@geiworks.com

© 2015 GEI Works
All rights reserved
GEI Works terms and conditions apply.

All photos are representatives only. Actual Product may differ than featured.

Materials and specifications are subject to change without notice. Featured products in photos may include additional equipment or accessories. See your GEI Works Dealer for available options.

GEI Works, Mars, Taurus, Triton, Kraken, Orion, Helios, Hydrostar, Centaur and geiworks.com, their respective logos, product identity used herein, are trademarks of GEI Works and may not be used without permission.