



**TAILORED INCINERATION  
SOLUTIONS FOR EVERY CHALLENGE**

At GEI Works, we provide cutting-edge incineration products tailored to meet the rigorous demands of diverse industries, from law enforcement to healthcare and manufacturing. Our incinerators are designed to handle everything from medical and hazardous waste to industrial by-products, ensuring compliance with environmental regulations and safeguarding public health.

**PRODUCT SOLUTIONS:**

- Little Helios Barrel Burner
- Helios 0.2 – Thermal Oxidizer Incinerator
- Helios 0.3





### Little Helios Barrel Burner

GEI Works' Little Helios Barrel Burner is designed to provide law enforcement and police stations and government entities, with in-house drug disposal system. Easy to move and operate, these 55-gallon barrel burners are frequently used to dispose of confiscated drugs, illicit drugs, evidence, contraband, and narcotics.

Applications:

- Law Enforcement only



### Helios 0.2 – Thermal Oxidizer Incinerator

A Sole Source Product – GEI Works' Thermal Oxidizer Incinerator was designed specifically for small batch use, without sacrificing the features you've grown to love with larger systems. Helios 0.2 is recommended for DEA drug disposal, as well as the safe incineration of pharmaceuticals, medical waste, trash, and other solid waste streams.

Applications:

- Small Scale Waste Disposal
- Evidence and Drug Disposal
- Solid Waste Disposal
- Medical Waste Disposal
- Hazardous Waste Disposal
- Disposal of Garbage/Trash/Waste



### Helios 0.3

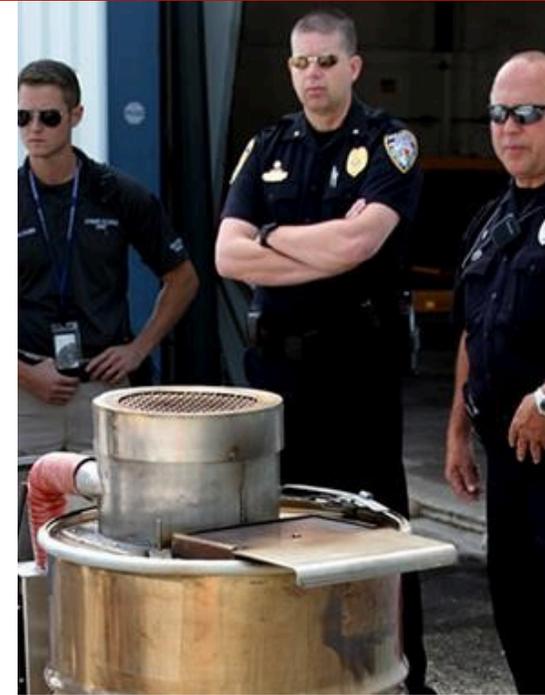
A Sole Source Product – GEI Works' Helios dual chamber portable incineration unit is the best method for safe drug disposal, pharmaceuticals, medical disposal, trash, medical waste, and other solid waste streams.

Applications:

- Medical Waste Disposal (such as Needles, Pads, Etc.)
- Equipment from Labs, Dental Offices and Health Organizations
- Solid Waste Incineration of Smaller Waste Materials
- Prescription Drug Disposal
- Confiscated Material Incineration
- Trash (a safer and more eco-friendly alternative to an open burn pit)



	<b>Little Helios</b>	<b>Helios 0.2^</b>	<b>Helios 0.3^</b>
<b>System Capacity</b> ^Waste streams with and average gross HHV range of 5500-8500 Btu/lb.	9-15 lbs per batch	0.8 MMBtu/hr up to 25 lbs	0.3 MMBtu/hr waste combustion. 30-50lbs/hr processing capacity.
<b>Design</b>	55 Gallon Stainless Steel Drum	Dual Chamber with Exhaust Stack	Dual Chamber with Exhaust Stack
<b>Air Supply</b>	Manually Regulated via Back Blower	Self Regulated via System Controls	Self Regulated via System Controls
<b>Loading</b>	Easy Load Hopper	Primary Chamber	Primary Chamber
<b>Electrical Requirements</b>	Standard 110V	120 VAC, 25AMP	120 VAC, 25AMP
<b>Fuel Requirements</b>	Wood or Charcoal	Diesel or #2 Fuel Oil	Diesel or #2 Fuel Oil
	<b>Primary Chamber / Fixed Hearth</b>		
<b>Chamber Volume</b>		4.27 cubic ft.	13.5 cubic ft.
<b>Hearth Area</b>		3.4 square ft.	5 square ft.
<b>Burner Capacity</b>		0.8 MMBtu/hr	0.25 MMBtu/hr. nom (Hi-Lo-Off Control)
	<b>Secondary Chamber</b>		
<b>Type</b>		Cyclonic Thermal Oxidizer with 1+ sec. r/t	Cyclonic Thermal Oxidizer with 1+ sec. r/t
<b>Chamber Volume</b>		4.27 cubic ft.	13.5 cubic ft.
<b>Burner Capacity</b>		0.8 MMBtu/hr. nom	0.25 MMBtu/hr
<b>Required Commissioning of Certified Technician</b>	No	No	No



GEI Works' Little Helios Barrel Burner is designed to provide law enforcement and police stations and government entities, with in-house drug disposal system. Easy to move and operate, these 55-gallon barrel burners are frequently used to dispose of confiscated drugs, illicit drugs, evidence, contraband, and narcotics.

**LITTLE HELIOS PORTABLE BURNER SPECIFICATIONS** *Federal Regulations for Air Programs*

<b>Construction</b>	55 Gallon Stainless Steel Drum* w/ Hopper, Lid, and Wheel Cart	40 CFR:	Protection of Environment
<b>Voltage Requirements</b>	Standard 120V	Chapter 1:	Environmental Protection Agency
<b>Fuel Requirements</b>	Wood or Charcoal	Sub Chapter C:	Air Programs
<b>Dimensions</b>	24" diameter x 26.5" W x 45" H	Part 60:	Standards of Performance for new Stationary Sources
<b>Included Items</b>	Stocking Rod PPE Gloves Lighter Cord Retainer Portable GFCI Plug Evidence Disposal Boxes	Subpart EEEE:	Standards of Performance for Other Solid Waste Incinerators



**What is an "Other Solid Waste Incinerator"?**

Other Solid Waste Incinerators (OSWI) is a name typically used to refer to small municipal waste combustion units and institutional waste incineration units. OSWI are required to follow the subpart for performance unless they are excluded in the exemption section. The Little Helios Police Station Barrel Burner falls under the following exemption: CFR 40 60.2887 p) Units that combust contraband or prohibited goods. Your incineration unit is excluded if the unit is owned or operated by a government agency such as police, customs, agricultural inspection, or a similar agency to destroy only illegal or prohibited goods such as illegal drugs, or agricultural food products that can not be transported into the country or across State lines to prevent bio - contamination. The exclusion does not apply to items either confiscated or incinerated by private, industrial, or commercial entities.





**System Overview:** The HELIOSTM 0.02-B is a packaged, dual chambered, controlled air, solid waste thermal oxidizer system (incinerator), engineered for small batch (approx.. 25 lbs.) combustion of solid drug & contraband wastes. A secondary combustion chamber provides superior, turbulent thermal oxidation of combustion gases with over 1 second retention std., for environmentally safe stack exhaust to atmosphere. This packaged system is provided fully assembled (except stack), factory tested and ready to use. Simply set the stack sections, plug in power, & connect LPG gas supply, with no special factory commissioning or training required.

**Approx. Dims:** 5'-2" L x 3' W x 8'-8" H (to top of std. stack)

**Approx. Weight:** 2500 lbs.

**Batch Capacity:** Approx. 25 gal. (3.4 ft<sup>3</sup> / 96 ltr.)

**Waste Combustion:** 80,000 Btu/hr. waste combustion, providing up to 25lb./hr. processing capacity for solid waste streams with an average gross HHV range of 5500-8500 Btu/lb.

**Electrical required:** 120 VAC, 25 amp

**Primary chamber:** Type: Fixed hearth, with under-fire air injection  
Chamber volume: 3.7 cu. ft.

**Secondary chamber:** Type: Thermal oxidizer with 1+ sec. r/t @ 1600°F  
Chamber volume: 4.27 cu. ft.

**Burner capacity:** 2 x 80-90K Btu/hr. max. LPG (modulated control)

**Construction:** skid - 3", 5#/ft. channel & 3" x 3" angle, A36  
shell - 11 ga., A569 carbon steel  
lining - 3", 3000°F Cast refractory  
insulation - .5", 550K, 2000°F ceramic fiber

**Air injection:** Under-fire & draft induction & exhaust gas cooling

**Systems Control:** Siemens PLC with Touch-screen operator interface  
To include: Primary & secondary chamber temperature control  
Temperature actuated fuel and air control  
Burner interface\*\*  
System status and alarm display  
*\*\* Discrete burner monitoring/control & flame supervision*

**Exhaust Stack:** 8" o.d. x 6" i.d., dual wall, s.s., insulated stack (9' std.)





The Helios 0.3 is a modular, dual chambered, controlled air, solid waste thermal oxidizer system (incinerator), engineered for 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. This packaged system is provided fully assembled (except stack), factory tested and ready to use. Simply set the stack sections, fill the diesel tank and plug in power, with no special factory commissioning or training required.

System Capacity: .3 MMBtu/hr waste combustion, providing 30-50 lb/hr processing capacity for solid waste streams with an average gross HHV range of 5500-8500 Btu/lb. Batch Capacity: Approx. 9-10 cu.ft. per 4-6 hr. batch cycle.

**Electrical required:** Single point - 120 VAC, 25 amp

**Fuel Capacity:** 25 gal. - diesel or #2 fuel oil

<b>Primary chamber:</b>	Type:	fixed hearth, with controlled over & under-fire air injection
	Chamber volume:	13.5 cu. ft.
	Hearth Area:	5 sq. ft.
	Burners capacity:	.25 MMBtu/hr. nom. (modulated control)
	Construction:	skid - 4", 6.25#/ft., A36 channel
		shell - 10 ga., A569 carbon steel
		lining - 3", 3000°F 750 psi, (Plicast 3000KK)
		insulation - .25", 550K, 2000°F ceramic fiber

<b>Secondary chamber:</b>	Type:	cyclonic thermal oxidizer with 1+ sec. r/t
	Chamber volume:	13.5 cu. ft. (std.)
	Burner capacity:	.25 MMBtu/hr. (modulated control)
	Construction:	shell - 10 ga., A569 carbon steel
		lining - 3", 3000°F 750 psi, (Plicast 3000KK)
		insulation - .25", 550K, 2000°F ceramic fiber

**Combustion air:** Supply to burners, under-fire and secondary air injection  
.33 hp, 120VAC, 60 cfm

**Systems Control:** Siemens PLC with Touch-screen operator interface  
To include:

- Primary & secondary chamber temperature control
- Temperature actuated fuel and air control
- Burner interface\*\*
- System status and alarm display
- Hydraulic systems control (applicable with optional loader)

\*\* Discrete, UL, CSA, FM & IRI burner monitoring/control  
w/CAD cell flame supervision provided for each burner

**Exhaust breaching:** 10" dual wall, s.s., insulated stack (6' std.)

