

Helios Burner/Incinerator Comparison Chart & Specifications

	Little Helios	Helios 0.3	Helios 0.5	Helios 1.0	Helios 1.5
System Capacity ^Waste streams with and average gross HHV range of 5500-8500 Btu/lb.	Up to 30 pounds	0.3 MMBtu/hr waste combustion. 30-50lbs/hr processing capacity	0.5 MMBtu/hr waste combustion. 55-85lbs/hr processing capacity.	1.0 MMBtu/hr waste combustion. 140-200lbs/hr processing capacity	1.5 MMBtu/hr waste combustion. 175-250lbs/hr processing capacity
Design	55 Gallon Stainless Steel Drum*	Dual Chamber with Exhaust Stack	Dual Chamber with Exhaust Stack	Dual Chamber with Exhaust Stack	Dual Chamber with Exhaust Stack
Air Supply	Manually Regulated via Back Blower	Self Regulated via System Controls	Self Regulated via System Controls	Self Regulated via System Controls	Self Regulated via System Controls
Loading	Easy Load Hopper	Primary Chamber	Primary Chamber	Primary Chamber	Primary Chamber
Electrical Requirements	Standard 110V	120VAC, 25AMP	Single point - 230V, 3 dial, 60 Hz, 50 amp w/optional loader	Single point - 230/460V, 3 dia., 60 Hz/25/15 amp	Single point - 230/460V, 3ø, 60 Hz, 25/15 amp
Fuel Requirements	Wood or Charcoal	Diesel or #2 Fuel Oil	Diesel or #2 Fuel Oil	Diesel or #2 Fuel Oil	Diesel or #2 Fuel Oil
Primary Chamber / Fixed Hearth					
Chamber Volume		13.5 cubic ft.	25.2 cubic ft.	66.8 cubic ft.	86 cubic ft.
Hearth Area		5 square ft.	8 square ft.	10 square ft.	14 square ft.
Burner Capacity		0.25 MMBtu/hr nom	0.4 MMBtu/hr. nom (Hi-Lo-Off Control)	0.278-0.45 MMBtu/hr. (Hi-Lo-Off Control)	0.28-0.45 MMBtu/hr. (Hi-Lo-Off Control)
Secondary Chamber					
Type		Cyclonic Thermal Oxidizer with I+ sec. r/t	Cyclonic Thermal Oxidizer with I+ sec. r/t	Cyclonic Thermal Oxidizer with I+ sec. r/t @ 1600°F (850°C)	Cyclonic Thermal Oxidizer with I+ sec. r/t @ 1600°F (850°C)
Chamber Volume		13.5 cubic ft.	17.1 cubic ft.	39.15 cubic ft.	51 cubic ft.
Burner Capacity		0.25 MMBtu/hr. nom	0.5 MMBtu/hr	1 MMBtu/hr (modulating, excess air control)	0.35-1.12 MMBtu/hr. (modulating, excess air control)
Required Commissioning of Certified Technician	No	No	Yes	Yes	Yes

*The drum is an option that can be added. The Barrel Burner is also available for sale without the drum.

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