

Helios Burner/Incinerator Comparison Chart & Specifications

	Little Helios	Helios 0.2 [^]	Helios 0.3 [^]	EPAT 0.5 [^]	EPAT 1.0 [^]
System Capacity [^] 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.	0.5 MMBtu/hr waste combustion. 55-85lbs/hr processing capacity.	1.0 MMBtu/hr waste combustion. 140-200lbs/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	120 VAC, 25AMP	120 VAC, 25AMP	Single point - 230V, 3 dial, 60 Hz, 50 amp w/ optional loader	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		4.27 cubic ft.	13.5 cubic ft.	25.2 cubic ft	66.8 cubic ft.
Hearth Area		3.4 square ft.	5 square ft.	8 square ft	10 square ft
Burner Capacity		0.8 MMBtu/hr	0.25 MMBtu/hr. nom (Hi-Lo-Off Control)	0.4 MMBtu/hr. nom (Hi-Lo-Off Control)	0.28-0.45 MMBtu/hr. (Hi-Lo-Off Control)
Secondary Chamber					
Type		Cyclonic Thermal Oxidizer with 1+ sec. r/t	Cyclonic Thermal Oxidizer with 1+ sec. r/t	Cyclonic Thermal Oxidizer with 1+ sec. r/t	Cyclonic Thermal Oxidizer with 1+ sec. r/t @ 1600°F (850°C)
Chamber Volume		4.27 cubic ft.	13.5 cubic ft.	17.1 cubic ft.	39.15 cubic ft.
Burner Capacity		0.8 MMBtu/hr. nom	0.25 MMBtu/hr	0.5 MMBtu/hr	1 MMBtu/hr (modulating, excess air control)
Required Commissioning of Certified Technician	No	No	No	Yes	Yes

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