

**TECHNICAL DESCRIPTION & SPECIFICATIONS Model:
Helios™-0.2-B Small Batch Drug Burner**



System Overview: The HELIOS™ 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 ft3 / 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.

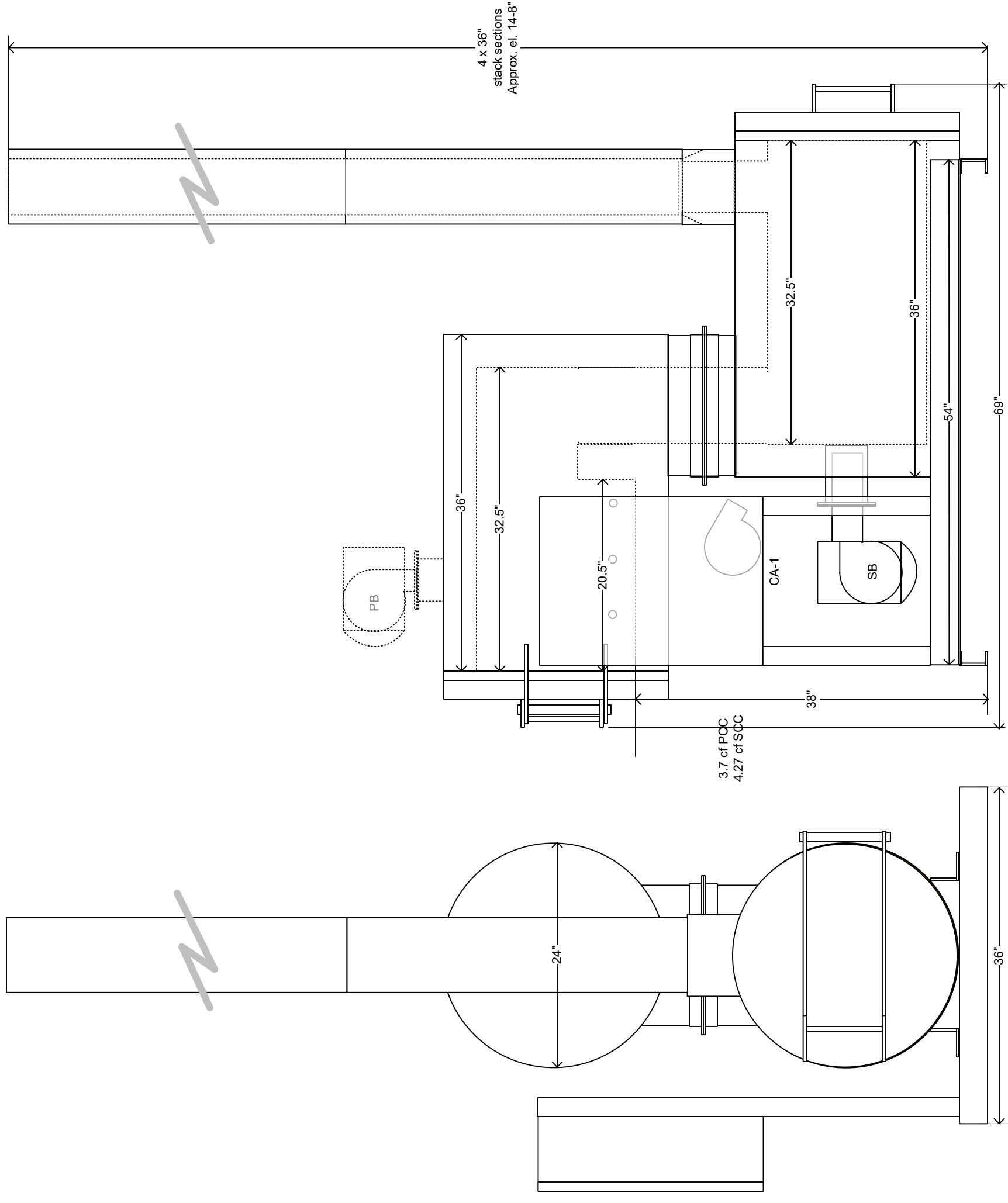
Burner capacity: 2 x 80-90K Btu/hr. max. LPG (modulated control)

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.)



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Title: 0.2 Batch General Arrangement Dwg.



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SIZE	FSCM NO	DWG NO	REV
C		GEI-EPAT Helios 0.2	2
Scale	1" = 1'	Preliminary Conceptual Estimation	Sheet
Project: GEI-Small Batch Incinerator			1 OF 1