

Solid Waste Systems

GEI Works



GEI
WORKS

GEI Works' waste disposal systems are designed to provide environmentally responsible, safe and effective solutions to solid waste disposal.

The systems are modular, multiple chambered, controlled air, solid waste thermal oxidizers (incinerators), engineered for the unique demands of solid waste disposal applications.

Controlled air primary chambers provide thorough combustion of the waste stream typically achieving over 95-98% volume reduction of the waste stream to safe, sterile ash.

An advanced cyclonic secondary combustion chamber provides superior, turbulent thermal oxidation of combustion gases, with standard 1 second retention for environmentally safe stack exhaust to atmosphere.





GEI
WORKS

Standard Models

Model 0.3 Provides .3 MMBtu/hr Combustion
Capacity: 30-50 lb/hr (14-23 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Only Operation: 9-10 ft³ (208 L) per 4-6 hr. (Ships skid mounted & fully assembled)

Model 0.5 Provides .5 MMBtu/hr Combustion
Capacity: 55-85 lb/hr (25-39 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: .75 yd³ (.55 m³) per 4-6 hr. batch / Intermittent Feed: .5 yd³/hr (.38 m³/hr) up to 8 hrs/day

Model 1.0 Provides 1.0 MMBtu/hr Combustion
Capacity: 140-200 lb/hr (64-90 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: 1.95 yd³ (1.5 m³) per 4-6 hr. batch / Intermittent Feed: .73 yd³/hr (.56 m³/hr) up to 8 hrs/day

Model 1.5 Provides 1.5 MMBtu/hr Combustion
Capacity: 175-200 lb/hr (80-115 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: 2.4 yd³ (1.8 m³) per 4-6 hr. batch / Intermittent Feed: 1 yd³/hr (.77 m³/hr) up to 8 hrs/day

Model 2.0 Provides 2.0 MMBtu/hr Combustion
Capacity: 210-320 lb/hr (95-145 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: 2.6 yd³ (2 m³) per 4-6 hr. batch / Intermittent Feed: 1.25 yd³/hr (.95 m³/hr) up to 8 hrs/day

Model 2.2 Provides 2.2 MMBtu/hr Combustion
Capacity: 260-400 lb/hr (118-180 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: 3 yd³ (2.3 m³) per 4-6 hr. batch / Intermittent Feed: 1.5 yd³/hr (1.15 m³/hr) up to 8 hrs/day

Model 3.0 Provides 3.0 MMBtu/hr Combustion
Capacity: 375-625 lb/hr (170-284 kg/hr) of average HHV of 5000-8500 Btu/lb wastes Batch Operation: 5 yd³ (3.8 m³) per 4-6 hr. batch / Intermittent Feed: 4 yd³/hr (3 m³/hr) up to 8 hrs/day



Solid Waste Systems SH Series

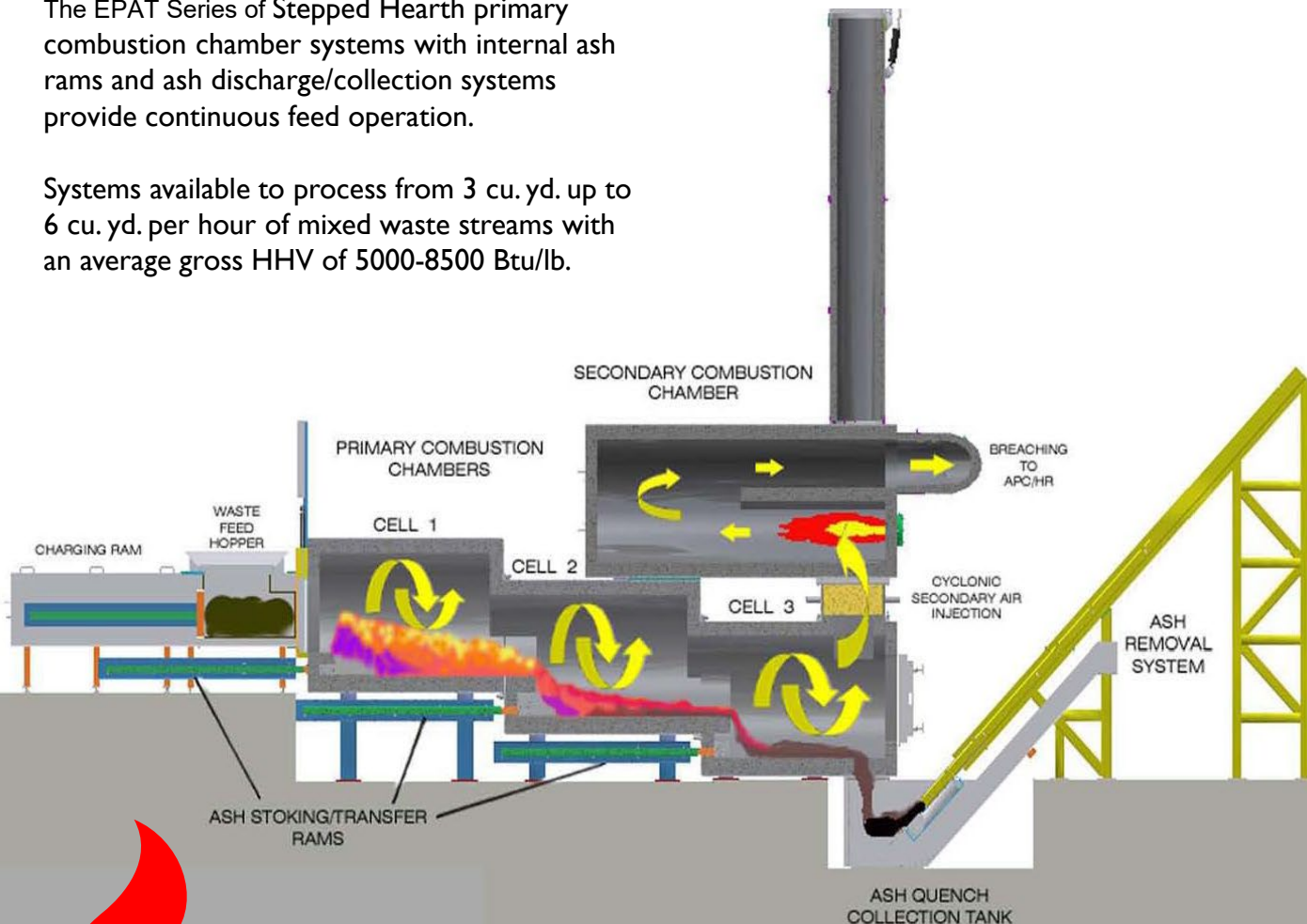


High Production Continuous Feed Stepped Hearth Systems

3 Cell – 3.3 MMBtu/hr. Stepped Hearth

The EPAT Series of Stepped Hearth primary combustion chamber systems with internal ash rams and ash discharge/collection systems provide continuous feed operation.

Systems available to process from 3 cu. yd. up to 6 cu. yd. per hour of mixed waste streams with an average gross HHV of 5000-8500 Btu/lb.





APPLICATIONS

Regulated
Waste



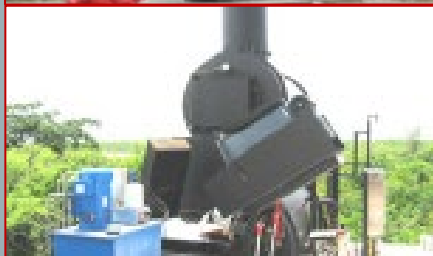
- **USDA Miami Intn'l Airport, FL** - Model 3.0 WL
- **The ARK at JFK, NY** Model 3.0 WL
- **Orlando Intn'l Airport, FL** – Model 2.5 SH
- **Tensas Flying Services, LA** – Model 2.0 BHD
- **Vail Valley Jet Center, CO** – Model 0.5 B

Drugs and
Contraband



- **Bureau of Investigation, GA** - Model 2.2 WL
- **Bureau of Investigation, TN** – Models 3 x 1.5 B units
- **Jackson Police Department, TN** – Model 1.5 B
- **Denton County Sheriff, TX** – Model 0.3 B
- **Spartanburg PD, SC** – Model 0.08 B

Island
Installations



- **Harvest Cay** - Model 2.2 L
- **Great Stirrup Cay** – Model 2.0 L
- **Bakers Bay, Great Guana Cay** – 2x Models 3.0 HL
- **Carnival Cruise Center, Grand Turk** – Model 2.2 L
- **Bell Island** – Model 1.5 B

Medical
Waste



- **Penn State ADL** – 500 PPH HMIWI w APC
- **CDC, Atlanta, GA** – 120 PPH HMIWI w APC
- **Rand Memorial, Freeport** – Model EPAT 1.0 WL
- **Bethseda Memorial, FL** – 1000 lbs/hr HMIWI w APC
- **Meribalais Hospital, Haiti** – 400 PPH 2.2L and PM 165

Pet or Human
Cremation



- **Peninsula Vet Assoc, VA** – 1000lb path charge 1.5
- **Orange County Animal, CA** – 400lb path charge 2.2
- **Pet Memorial Svcs** – 6-PCC Model 3.0 6 chamber unit
- **Ho Chi Minh City** – PM-400 Front Load, and PM-250
- **Lewisham, UK** – PM-275 Front Load, Rear cleanout

Precious Metals
Recovery



- **Atlantic Precious Metals** – Custom Thermal Oxidizer
- **Allied Metals** – 3.3 SH, Stepped Hearth System
- **United DMS** – 7 x 500 PPH Batch Thermal Oxidizers
- **Blue Oak, AR** – Custom Multi-chamber Assay Reduction

