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## Solid Waste Disposal Incinerator Model PM 165



### Industrial Incinerator System Overview:

The PM-165 is a, hot hearth, multiple chambered, controlled air, pathological crematory system engineered for the efficient cremation of pathological remains.

System features an efficient **hot hearth design** with a mazed secondary combustion chamber providing superior, turbulent thermal oxidation of combustion gases with **2 second retention capacity**, hydraulic actuated guillotine charging/clean-out door and integral remains collection hopper.



**System Capacity:** 165 lb/hr. (for Type IV Pathological remains)

**Overall Dimensions:** 14'-0" L x 5'-1" W x 8'-2" H

**Approx. System Weight:** 25,000 lbs



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**Industrial Incinerator - Technical Specifications:**

**Electrical required:** 230/460V, 3phase, 60 Hz, 50/40 amp single point connection

**Required fuel (NG/LPG):** 1.5 MMBtu/hr @ 16" w.c. @ 1.5" header

**Chamber Volumes:**

Primary - 62.4 cu. ft.

Secondary - 65.6 cu. ft. (provides 2 sec. retention)

Hearth area - 25.8 sq. ft.

**Primary burner capacity:** 500,000 Btu/hr. (hi/lo/off modulated control)

**Secondary burner capacity:** 1,500,000 Btu/hr. (fully modulated control)

**Combustion air fan:** 1350 scfm 5hp, 230/460 V, 3phase, std.

**Hydraulic door power unit:** 2 hp, 115/230 V, 60 Hz, 3450 rpm, 5 gpm, 450 psi, 3 gal. res.

**Steel construction:** 3 x 3 x 1/4" sq. tube frame structure (A501)  
3/8" end plates & 1/4" plate casing (A36)  
12 gage (A366) insulated, removable side panels

Optional Hydraulic Ram Loader





**Industrial Incinerator - Technical Specifications:**

<b>Refractory &amp; insulation:</b>	Hearth: 6"-11", 3000°F dense cast refractory
	Side walls: 4.5 x 2.5 x 9 2700° fire brick 2" 1900°F & ¼" 550K insulation backing
	PCC roof: 6" 3000° cast refractory
	SCC floor: 50% dense / 50% insulating cast refractory 5" thick
<b>Stack:</b>	24"od x 20"id x 48"L sections <u>(14'-6" rise above grade w/ std. 2 sections)</u> 10 ga. CS shell with 2" 2400° refractory lining
<b>Draft Control:</b>	Integral draft induction w/temp. reduction to <950°F
<b>Systems Control:</b>	Siemens S-7 series PLC with Touch-screen operator interface To include: Primary & secondary chamber temperature control Temperature actuated fuel and air control Burner interface, status and reset access** System status and alarm display Hydraulic systems control
<b>Optional:</b>	<i>EPAT-OCS - Oxygen based air control for 15-25% better fuel efficiency</i>

*\*\* Discrete UL, CSA, FM & IRI burner control w/U.V. flame supervision provided for each burner*

