

# MODULAR MEDICAL WASTE INCINERATOR

**medsurge**   
technics for life

**addfield**  
Incinerate • Cremate



## MODULAR MEDICAL WASTE INCINERATOR

### DESCRIPTION

The MP-300 is a mid-sized medical incinerator. Securely destroying a complete range of Medical, Pathological and Clinical waste. Designed and built along the latest advances in medical incineration.

Benefiting from Hot Hearth technology, efficiently recycling heat throughout and below the primary chamber, delivering complete 360° heating.

Unrivalled in its field boasting a 40% reduction in fuel consumption compared to alternative solutions. The MP-300 is ideally suited for facilities of between 400-600 beds and equivalent.



## FEATURES

### Primary Chamber

- Heavily insulated internal refractory lining. Constructed from high grade refractory brick ensuring a secure self supporting, interlocking arrangement.
- Manually opening, securely locking, access door with viewing port.
- Automatic temperature controlled on-off waste ignition burner complete with internal air fans.
- Hot Hearth Combustion Burner, temperature controlled on-off, complete with internal air fans.
- Secondary combustion burner air fans, automatically controlled distribution to their designated area.
- Two temperature sensor mounting points.

### Secondary Chamber

- Fully insulated internal refractory lining. Constructed from high grade refractory brick and low thermal mass insulation.
- Secondary chamber burnout burner, temperature controlled on-off complete with internal air fans
- Automatically controlled integrated combustion burner air fans.
- Temperature sensor mounting point at the base of the exit flue ensuring the chamber reaches the necessary 1100°C minimum, with a 2 second retention time.

## Machine Specification

External L x W x H (mm)	3235 x 1150 x 1950/3825
Internal L x W x H (mm)	1600 x 675 x 700
Chamber Volume (m <sup>3</sup> )	0.76
Weight (approx tonnes)	3.6
Max Load Capacity (kg)	300
Nominal Burn Rate UK* (kg/hr)	<50
Burn Rate [Export Only]* (kg/hr)	50 - 75
Thermal Capacity (kW)	390
Power Supply 50/60 hz	220 - 250v
Door Aperture	675 x 550
Hot Hearth Principle	Double Pass
Fuel Types	Diesel, LPG, N-Gas
Control Panel	AI or PLC
Insulation Board	25mm Superwool
Insulation Fire Brick	Grade E23
Fire Brick (Alumina)	42.5%

## Waste Type

	Clinical Waste
	Treated Waste
	Anatomical Waste
	Cytotoxic & Cytostatic Waste
	Offensive/Hygiene Waste
	Medicinal Waste
	Domestic (municipal) Waste



## BURNER SPECIFICATIONS

PARAMETER (1/2 HR AV)	MEASURED*	LIMITS
Total Dust	30mg/m <sup>3</sup>	12mg/m <sup>3</sup>
Sulphur Dioxide	200mg/m <sup>3</sup>	2.4mg/m <sup>3</sup>
Nitrogen Dioxide	400mg/m <sup>3</sup>	60mg/m <sup>3</sup>
Carbon Monoxide	100mg/m <sup>3</sup>	78.3mg/m <sup>3</sup>

- MAX 1-12 have electrical frequency 50-60 Hz
- High efficiency fan ventilation system (HPV)
- Low NOx version class 3 with yellow flame
- Designed in compliance with current regulations
- ISO 9001 and VISION 2000 certification
- All burners are fire tested

## The Addfield Difference

- Pre-Fabricated 8mm & 10mm robust mild steel casing, seam welded and suitably stiffened/ braced where necessary.
- Lightweight resilient refractory fibre insulation door, providing a tight seal, giving excellent thermal efficiency.
- Primary and secondary chamber lining thickness 220mm rated up-to 1650°C.
- Premium paint finish - Steel structures are painted using a two-pack high grade paint system.
- Unique Hot Hearth technology enabling increased efficiency of incineration by providing additional heating below the chamber encouraging 360° heat distribution.
- Multi-layered refractory lining using fire bricks and insulation bricks, improving thermal efficiency.



## **ADDFIELD INTELLIGENT CONTROLLER**

**Simple to operate adaptive control system for achieving optimal results from your machine.**

### **CONTROLLER FEATURES**

The Addfield Intelligent Controller has been developed to provide you with a simple yet effective operational process. Designed around a touch screen HMI interface, and independent burner control switches.

The touch screen interface provides all of your essential operations at the press of a finger. Having pre-loaded programmes optimised for your individual requirements, waste type and operating regime.

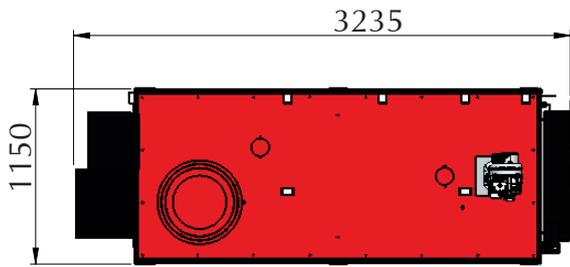
Giving you instant access to live temperature readings for the primary and secondary chambers and remaining burn time to enable you to manage your incineration process more efficiently.

Simple to install with a plug and play interface which enables straight forward installation and maintenance.

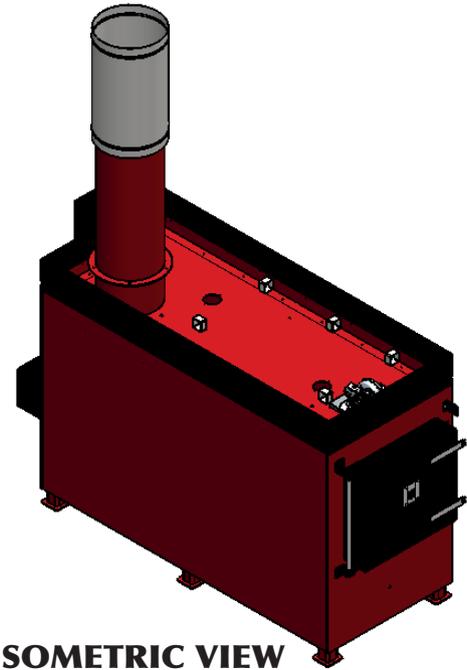
Built in data-logging to automatically records you usage, timings and temperatures achieved. Archives all essential which is able to be exported to Excel through the removable USB drive.

### **KEY FEATURES**

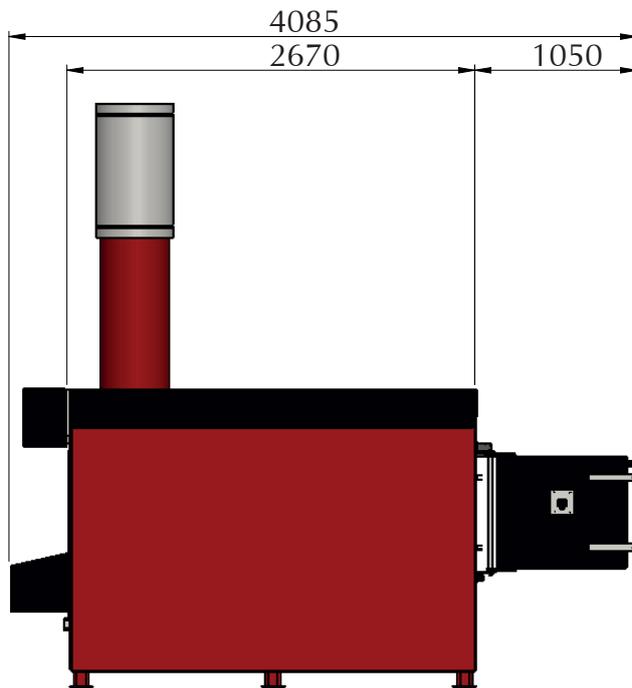
- Plug and play design
- Zone ramp sequence multi zone controller.
- Incoming and outgoing cable terminations.
- Burner control gear.
- Interface relays and contractors.
- Temperature indication and control of the primary chamber.
- Temperature indication and control of the secondary chamber.
- Plant status indicators.
- Cycle status indicators.
- Fault status indicators.
- Operator interface.
- Data-logging
- USB Port.



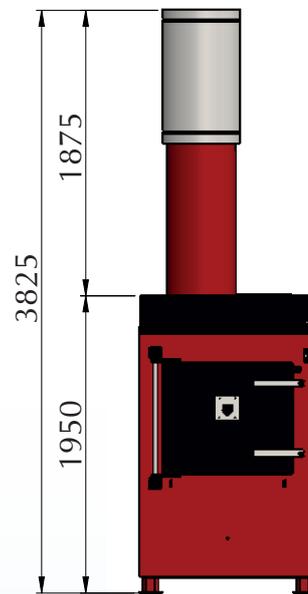
**PLAN VIEW**



**ISOMETRIC VIEW**



**SIDE VIEW  
OPEN DOOR**



**FRONT VIEW**



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