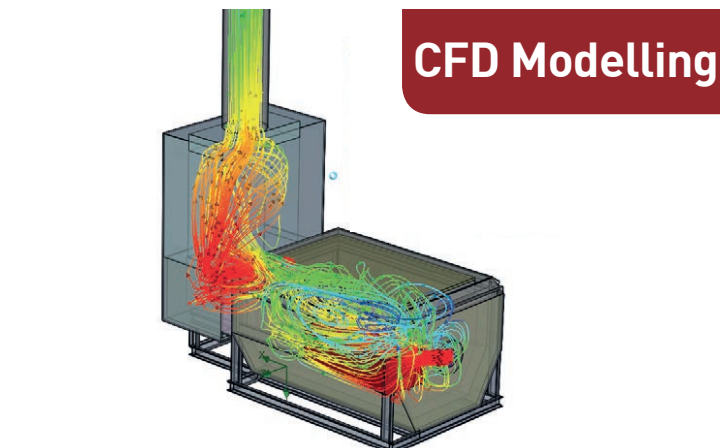


'The most thermally efficient, robust and reliable waste incinerator on the market
Simply Built Better!'



GM8000 8000kg High Capacity Waste Incinerator

The GM8000 incinerator is designed for continuous or intermediary use, with burn rates of 400kg-1000kg per hour dependant on the waste streams available to be incinerated. The GM8000 machine come with two primary loading chambers, allowing for increased flexibility of loading throughtout the day and The unit will include a fully integrated afterburner chamber that will retain all gases inside for a minimum of 2 seconds at 850/1100°C prior to being released into the atmosphere allowing the machine to be clean, safe and EU emission compliant.



t: +44(0)1543 571280 | f: +44(0)1543 571173
e: sales@addfield.com | www.addfield.com
Addfield Environmental Systems Limited
Unit 9 | Zone 4 | Burntwood Business Park | Staffordshire | WS7 3XD | UK

addfield
Incinerate • Cremate

GM8000 8000kg High Capacity Waste Incinerator

The GM8000 range is designed as a two stage incinerator unit comprising of a primary loading chamber and a secondary after burner chamber. This afterburner system draws the hot gases from the primary chamber, this ensures a clean (and compliant) burn at temperatures of 850-1150°C.

The Addfield range of incinerators are CE Certified to BS EN 746-2 :1997.

Bespoke refractory lining systems to suit waste gas composition are manufactured to suit your specific application.



Machine Specifications: GM8000

External Length (mm)	13800
External Width (mm)	2500
External Height (mm)	6300
Primary Chamber Sizes:	
(Two chambers of the following:)	
Internal Length (mm)	5000
Internal Width (mm)	1200-1600
Internal Height (mm)	1100
Load Volume (m ³)	15
Weight (Approx. Tonnes)	38
CE Certified	YES
EU Regulations Compliant	YES
Max Load Capacity [†] (kg)	8000
Nominal Burn Rate* (kg/hr)	400-1000
Thermal Capacity (kw/hr)	1000-1400
Power Supply 50/60hz	210/230v

Fuel Options:

Diesel	Yes
LPG	Yes
N-Gas	Yes

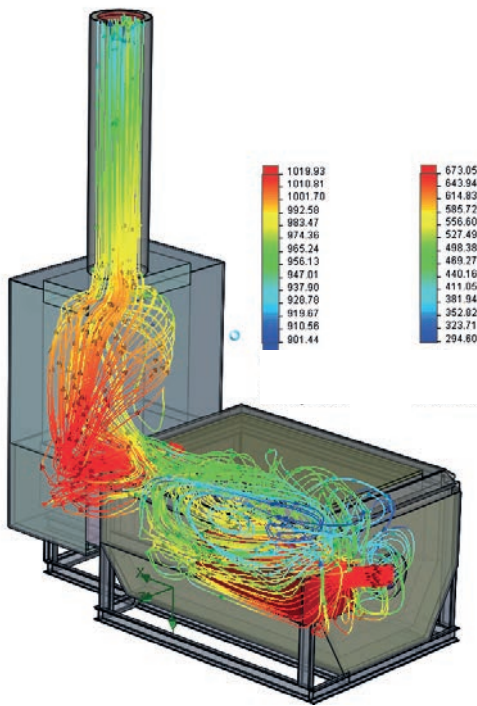
[†] Based on general municipal waste streams

* Depending on the type waste stream being loaded and excludes heat up time.

Final specification will depend on actual application and waste stream to be incinerated.

We reserve the right to change the specification, dimensions and quality of materials from time to time, so long as the alteration is minor or an improvement to the said products.

GM8000 8000kg High Capacity Waste Incinerator



Computational Fluid Dynamically Modelled Incinerators

Key Features:

We have CFD modelled all of our incinerators by utilising some of the most advanced software available. By using Computational Fluid Dynamics software it helps us to predict gas velocities /movements within the chambers along with external surface temperatures whatever the external ambient parameters maybe.

We also use this information to develop a more durable, robust and efficient incinerator by:

- Identifying heat build-up and stress points within the structure.
- Reducing thermal heat loss by increasing insulation systems.
- Designing out hot & cold spots to ensure complete combustion within the chamber.

Incinerator General Construction

- Pre-fabricated 6 & 8mm robust mild steel casing, seam welded & suitably stiffened/ braced where necessary.
- Paint Finishing – The steel structures are completely painted using a two pack high grade paint system that is baked onto the steel structure at 70°C for 10hrs.
- Three layers of refractory lining in the primary chamber totalling thickness of 180mm & incorporating microporous insulation, giving a rating of 1750°C.
- Lightweight resilient refractory fibre insulation lid, providing a tight seal and gives excellent thermal efficiency.
- All combustion fuel pipe work and electrical systems are weather proof and in accordance with BS 7671-17.
- Excess air and rapid cooling systems fitted as standard, aiding cleaner burns and faster cool down times.

Primary Chamber (Two Quantity:)

- One automatically operated winch type access lid with a counterbalance and manual override.
- Five waste ignition burners, temperature controlled on-off, complete with internal air fans.
- A pre-cast block impact zone, that protects the refractory lining when loading.
- De-ashing doors for ease of cleaning.

Secondary Chamber

- Three secondary chamber burnout burners, temperature controlled on-off, complete with internal air fans.
- Integrated combustion burner air fans with automatically controlled distribution to their designated area.
- Four meter refractory lined exhaust stack as standard (longer lengths can be added).

GM8000

8000kg High Capacity
Waste Incinerator



Addfield Programmable Logic Controller

Key Features:

- Plug and play design for easy & efficient replacement.
- Ramp burner controls.
- Colour touch screen interface.
- Data logging and USB output.
- Incoming and outgoing cable terminations.
- Burner time control during cycles.
- Temperature feedback and control during cycles.
- Interface relays and contactors.
- Emergency stop feature.
- Security lock out.
- Cycle status indicators.
- Fault status indicators.
- Integrated excess air controller.
- Operator interface.
- Scrubber control system



Waste Loading and De-Ashing

The GM8000 series of incinerators are designed for top loading only through the main automatic opening access door.

At the end of every incineration process it is recommended the ash should be removed prior to the next incineration cycle. Optional de-ashing doors can be situated at the base of the machine. A clean programme is built into the system that once activated will automatically shut of the burners system as an extra safety feature on this machine.

Waste types to be used in the Addfield GM8000 Incinerator

- Medical wastes
- General waste
- Animal Waste

Combustion System

The burner system comprises of fully automatic package burners, these burners come complete with the following features:

- Flame failure controls
- Adjustable flame patterns
- Integral fuel pump
- Solenoid valves
- Integral continuous air fan
- Fuel sensors

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