



CIM- Range

Combustion Engineering for the 21st century

Containerised Incinerator Range Capacity from 100 to 350 Kg/hr



Model CIM-350



Model CIM-250 with auto loader

The CIM range was developed for the safe and clean disposal of general waste from Base Camps and similar operations, typically within the Petrochemical and Hydrocarbon industry, oil exploration, and Military bases. Its design allows for low cost shipping in standard containers 20ft and 40ft as applicable and the designs are engineered for reliable operation in remote location with difficult climatic conditions, such as desert, high humidity, and extreme cold climates.

The CIM design utilises proved 3TS incinerator technology and re-engineers for installation into standard shipping containers. The same high temperature, turbulence and residence time design is incorporated in the special CIM design and provides good efficient combustion to meet the required emission standards for mobile incinerators and local environmental requirements for the disposal of general waste.

The unit's capacity is based on general waste from housing camps, such as, food waste, packaging, wood, cloth, plastics, medical waste, paper and cardboard. Mixtures of other waste may be destroyed however the capacity may vary according to the waste CV, moisture content and waste density.

Self Contained System

Simplicity of Operation

Proven Technology

Robust Construction

Specification

Models CIM	Capacity (Kg/hr)	Container Dimensions (mm)				Power kW	Noise level dba 1m	Number of Burners	Electrical Spec
		Length	Width	Height	Weight (kg)				
100	25 -100	5890	2345	2400	8000	2.5	65	2	IP65
150	50 - 150	5890	2345	2400	8750	3.0	65	2	IP65
250	75 -250	12015	2345	2690	9550	3.8	68	3	IP65
350	75 - 350	12015	2345	2690	10450	4.3	68	3	IP65

Site requirements:

Once delivered the CIM only requires a level area to be located, fuel and mains power supply. The waste is loaded manually into the primary chamber and de-ashing is also a manual operation, an ash rake and ash pan are supplied as standard.

Power requirements:

The CIM can be supplied arranged for a variety of voltages to suit site supplies, the standard voltage would be – 380v 3 phase 50 Hz and 230v 3 phase 60 Hz a four wire supply.

Auxiliary equipment required:

Diesel oil storage tank or gas supply as required.

Construction:

A re-engineered 3TS solid hearth dual chamber incinerator designed to BS3316-1987, constructed of heavy gauge steel plate, welded and bolted on to a ridged box section frame, Fitted into a standard container. The CIM100 and CIM150 are supplied in a standard 20ft container and the CIM 250 and CIM350 are supplied in a standard 40ft container. All equipment surfaces would be painted with an etch primer and a gloss finish top coat.

The incinerator outer casing is a 6mm thick welded MS plate, lined throughout with 255mm high grade castable and fire brick refractory with 50mm thick ceramic fibre block insulation, the hearth is lined in the same way as the walls. The secondary chamber section is lined in the same way as the primary chamber. Each chamber is fitted with an automatic packaged burner, temperature controls safety over heat protection and loading door primary burner isolator switch.

Controls:

The control panel is IP65 and is mounted on the inside of the container and houses the ON/OFF switches, relays and indicator lamps for the safe operation of the system. Electrical power connection can be made safely via the customer plug-in panel in the container.

Combustion Air:

The units are fitted with a forced draught fan, centrifugal impellor, with a TEFC motor IP65 rated. The air supply is connected to the combustion chambers; each air inlet has a manual damper control to allow adjustment for variations in the waste feed. The air supply is arranged to provide air for the clean combustion of the waste and for intimate mixing of the secondary chamber gases to ensure clean combustion and smoke free emissions.

Burner:

The system is fitted with burners which are a robust automatic packaged burner design, located one on each of the combustion chambers, positioned to fire across the chamber to create cyclonic combustion conditions and a long residence time to complete combustion to ensure good ash quality and complete waste destruction. The system can be supplied suitable for Diesel oil, Natural and LPG firing as required.

Options:

- Chimney extensions each extension 1000mm long.
- Fuel oil Tank 500 gal capacity with tank level switches for automatic unmanned operation.
- Built in electrical generator, battery start.



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