



i8M-60 Incinerator

Quotation & Proposal



INCINER8 is a reputable leading manufacturer of general waste, medical and animal waste incinerators with associated pollution control technology equipment. **INCINER8** strives to provide the best technological solution to the ever increasing waste management issues that we face today.

As a global company, we continuously strive for excellence in quality and offer great value for money, as well as recognising the importance of culture in business. **INCINER8** has an extensive dealer network on every continent and exports to over 172 countries world-wide.

Our products are all fully **CE certified**, ensuring that we meet the highest standards in health & safety, construction and environmental requirements. **INCINER8** is committed to the environment and is constantly developing the cleanest and the best incinerators for waste management. We also have a large range of **DEFRA** approved units which meet the highest regulations for animal waste incineration.

- Highest Efficiency Product Range
- Vast Experience in Global & Local Provision
- Innovative Technologies
- First Class Aftersales Support



INCINERATOR OVERVIEW

Primary combustion chamber:

- **High quality monolith refractory lining rated up to 1600°C.** Monolith design provides the best structural stability, optimal heat retention (without losses on joints), and makes maintenance extremely simple and cost efficient.
- **High quality insulation coating. 20 mm insulation layer.** This provides excellent heat retention in the primary chamber, minimizing energy losses (increased efficiency), while protecting outside steel structure providing longer equipment life-time and safer environment for the operators.
- **Steel structure made of high quality durable steel.** Constructed to ensure stability, compact design allows for simple installation and transport of the incinerators.
- **Treated with special HT paint.** Heat resistant to ensure you product stays in great condition.
- **Internal shape designed for optimal heat distribution** avoiding cold spots and providing liquid retention.
- **Specially designed ash removal door** for easy and efficient ash removal.
- **Diesel oil or gas Burner with improved energy efficiency** Lower emissions of nitrous oxides with wide working field (100 - 300 kW) adjustable for different applications.
- **Constant ventilation with adjustable air flow** to provide optimal combustion conditions and efficient gradual cooling of the system

Secondary chamber (after combustion chamber):

- 2 second gas retention
- High quality monolith refractory lining rated up to 1600°C

NEW FOR 2017: Now fitted with dual burners in primary chamber and new higher capacity burner fitted to secondary chamber. Diesel oil or gas Burners with improved energy efficiency and low nitrous oxides with wide working field (20 - 60 kW) adjustable for different applications.

Constant ventilation with adjustable air flow to provide optimal combustion conditions and efficient gradual cooling of the system

Electrical requirements

- 220v -240v, single phase 50-60Hz - 13-16 amp
- 110V systems available on request

Control panel

- Weather resistant, IP65 rated
- User friendly, simple to operate plug and play control panel
- Controls primary and secondary burners independently
- Thermostatic device (for increased fuel efficiency)
- HQ durable temperature probes



Standard flue gas treatment:

Our secondary chamber technology prevents dioxins from cracking into smaller but more reactive molecules, this is known as de novo formation. This can be especially apparent in the presence of heavy metals, which can act as a catalyst. The prevention method can be explained as follows: a self-ignition process forces the micro particulates to pass through a flame curtain, this burns all harmful emissions, gas remnants are then retained in the secondary chamber, through thermal decomposition, and cyclonic air distribution to ensure a clean odorless emission in the form of vapor.

Site Proposal:

Floor must be solid, and levelled. Concrete floor is preferred for installation. The concrete base is a standard reinforced concrete slab 20 cm thick.

We recommend replacing the material at a depth of at least 50 cm (applying gravel and compacting to the compressibility modulus $M = 80.0 \text{ MN/m}^2$)

All fuel and electrical installations should be done according to local regulations.

Shade / shelter type of weather protection is suggested to protect incinerator from weather. Prefabricated shelters for installation are available.



MODEL I8M-60 DETAILS:

The I8M-60 is a proven and unique design which is currently operating in many different applications throughout the world. They have a high build quality that ensures durability and ease of installation, operation and servicing.

They are suitable for many purposes including medical waste, camp waste and general waste applications.

Model I8M-60 advantages:

Ease of Use

- Fully automatic control of burners with temperature monitoring display.
- *90% factory pre-installed for easy and simple on-site installation*

Fuel Efficiency

- 15litres per hour (dependent on application).
- Thick monolith refractory lining rated to 1600°C in main chamber retains heat, increasing efficiency.
- Dual Thermostatic control of burners.

Quality Built to Last

- Heat resistant 5mm steel.
- Stainless steel stack.
- 12cm of refractory lining - steel reinforced

Model I8M-60 Key features:

- Low running and maintenance costs
- Automatic and simple to operate control panel
- Incineration temperatures of 850°C
- 5mm steel casing and fully insulate
- Dense refractory concrete lining rated to 1600°C
- Solid hearth to allow maximum burnout
- Cool door front – air gap panel
- Front opening door for easy loading
- Integrated fuel tank, fuel feed, filter and regulator
- Stainless steel flue as standard
- Afterburner fitted as standard
- 12 month or 400 / 1000 hours warranty.
- CE marking
- Easy on-site installation
- Optional Gas Cleaning System

TECHNICAL DATA

Technical Specifications

Fuel	Diesel Oil
Chamber Capacity	0.57 m ³
Burn rate	50 to 60kgs per hour
Avg Ash Residue	3-5%
Avg Fuel Consumption	15 litres per hour

External Dimensions

Length (mm)	2120
Width (mm)	1250
Height	3800
Weight (kg)	2600

Operation

Operating Temperature	850 °C
Residency Time in Secondary Chamber	2 seconds
Temperature Monitoring	YES (Dual Control)

Shipping Dimensions

Pallet	N/A
Shipping Weight (kg)	2600

EMISSIONS DATA:

The I8M-60 incinerator is designed to handle all types of waste streams including hazardous waste. Provided the correct burn procedure is followed the emissions from this incinerator will meet all limits as set out in EU Directive 76/2000/EC. With correct use our machines should only emit a **smokeless, odorless vapor**.

Emission Data

Parameter	Limits (1/2 hr av)	Measured
Total Dust	30 mg/m ³	12 mg/m ³
Sulphur Dioxide	200 mg/m ³	2,4 mg/m ³
Nitrogen Dioxide*	400 mg/m ³	60 mg/m ³
Carbon Monoxide	100 mg/m ³	78,3 mg/m ³

ACCESSORIES:

Whether customary or required we can provide the following additional accessories to our incinerators:

- Gas Scrubbers
- Heat Recovery Systems (Hot Air/Water)
- Waste to Electricity Generators*
- Pollution Control Systems
- Containerized Incinerators
- Bespoke Modifications

*Only available on the I8-700 or I8-1000 incinerators



060

Certificate Number

6596

Date First Registered

29/11/2007

Date Certificate Expires

28/11/2016

*World Certification Services Ltd.
Custom House, 52A Mersey View
Merseyside, L23 8QB
United Kingdom*



CERTIFICATE OF REGISTRATION

This Certificate has been awarded to:

Inciner8 International
Unit 2, Canning Road Industrial Estate
Canning Road
Southport
PR9 7SN

In Recognition of the Organisation's Management System which complies with:

ISO 9001:2008

For the Scope of Activities described below:

**Wholesale Distribution of Waste Incinerators & Heaters,
UK & International.**
**Manufacture, Sales and Distribution of Waste, Animal and
Medical Incinerators.
Heaters.**

This Certificate has been awarded by

WORLD CERTIFICATION SERVICES LTD.

Issued By:

Issue Date:

20/11/2013

Revision 0

The use of the accreditation mark indicates accreditation in respect of those activities covered by accreditation certificate number 00

INCINER8

Leading Provider of Thermal Treatment Solutions

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MACHINE LISTED BELOW HAS BEEN TESTED BY MANUFACTURER IN FACTORY BEFORE DISPATCH

PRODUCTION DATE:

CONFORMS TO ALL SAFETY NORMS WHEN USED ACCORDINGLY

CE DECLARATION OF CONFORMITY
DECLARATION DE CONFORMITE
DECLARACION DE CONFORMIDAD
ATTESTATO DI CONFORMITA
EG- KONFORM IT A TSERKLARUNG

INCINER8 LTD, UNIT 2, CANNING ROAD INDUSTRIAL ESTATE, CANNING ROAD, SOUTHPORT PR9 7SN, UNITED KINGDOM

Has declared that the machinery described:
Declares que les machines descrites:
Declaramos que la maquinaria descrita:
Dichiara che la macchina di seguito descrito:
Bestatigt daB die hierunter beschreibt Maschine:

Model (Modele; Modelo; Modello; Modell) : **IBM-60 CE INCINERATOR, C/W BURNERS**
Serial Number (Numero de Serie; Numero de Fabricacion; Numero di Serie; Registrirnummer) :
INS000 : 0000000000 / 0000000000 : 00000/0/00

Conforms to the following directives:
Est conforme aux Directives suivantes:
Es conforme a las Directivas siguientes:
E conforme alle disposizioni contenute nelle seguenti direttive:
Ist gemab folgenden Richtlinien hergestellt worden:

1. **BS EN 746-2:1997**
(industrial thermoprocessing equipment part 2. Safety requirements for combustion and handling systems)

2. **Low Voltage Directive 73/23/EEC**

Directive Basse Tension
Directive Baja Tension
Direttiva Sulla Bassa Tensione
Niedrige Sapnnung in Richtlinie Diretivas

3. **EMC Compatibility Regulation 89/336/EEC**

Directive CEM
Directiva CEM
Direttiva Compatibilita Elettromagnetica
Elektromanetische Vereinbarkeit in Richtlinie Directive EMC

4. **Machinery Directive 2006/42/EC (including amendment)**

Directive Securite Machines
Directiva Seguridad Maquinas
Direttiva Macchine
Maschinen in Richtlinie Directiva De Maquinario

