Facultatieve Technologies
Cremation & Incineration Equipment

Technical Information

MAXIMASTER MKII INCINERATOR

member of the Facultatieve Group founded 1874

The Maximaster MKII Incinerator represents a well-proven means of disposing of a wide variety of wastes cheaply and efficiently without the emission of visible fly ash odour or smoke.

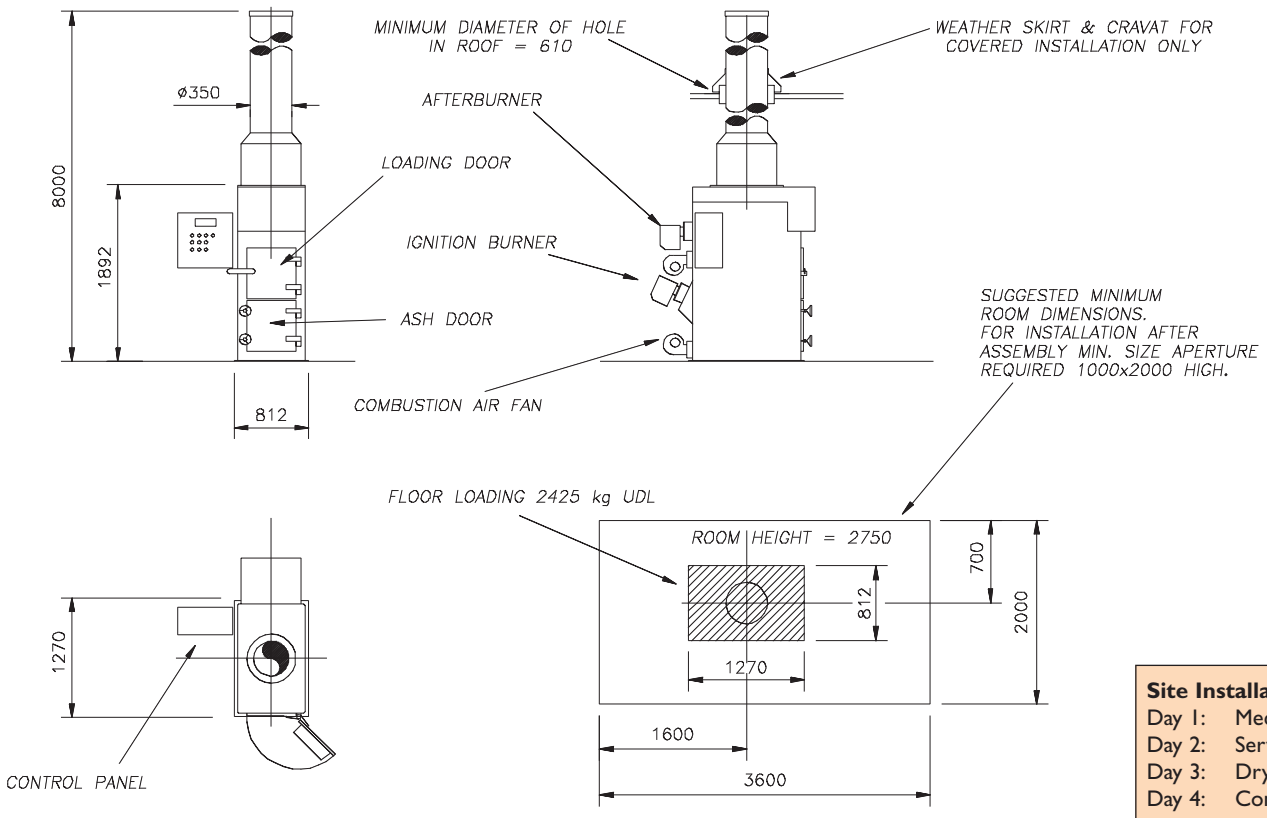
Applications:
'Clinical' *(Hospital & Pharmaceutical)* / 'Pathological' *(Animal / Veterinary)* & 'Confidential' *(Documents / Bank Notes)*.

Throughput:
45kg/h clinical waste (based on as received energy content 17MJ/kg and a bulk density of 70kg/m³). Other waste burn rates subject to clarification of waste energy, moisture & ash content along with bulk density for each application.

Basic Operation:
The waste is ignited by the ignition burner which is then switched off by the operator typically after ~15 minutes and the majority of waste is allowed to burn with the minimal addition of auxiliary fuel input to the secondary chamber by the afterburner.
'Under fire' combustion air is introduced and the resulting gases pass, from the primary chamber depositing fly-ash particulate in the unique venturi panels, to the secondary chamber which is maintained between 800°C to 1050°C dependant on the client / local regulations specified. Cooling air is induced by natural draught (Standard Vertical Off-take only) allowing the gases to exit via the steel stack at a nominal temperature of 400°C.

DESIGN FEATURES:

- ✔ **Simple Robust Construction**
- ✔ **Pre-wired Packaged Unit**
- ✔ **Primary & Secondary Chamber with integral burners**
- ✔ **High Grade Composite Lining**
- ✔ **Unique Integral 'Venturi Panel' fly-ash / dust emission prevention**
- ✔ **Steel Chimney**
- ✔ **Carbon Residue in ash less than 5% w/w to European Directive 2000/76/EC**
- ✔ **Low Utility consumption**
- ✔ **Low Maintenance**
- ✔ **Electromagnetic Safety Door Lock**
- ✔ **Manometer Natural Draught Indicator**
- ✔ **Double Doors for continuous loading and complete man access for ash removal**



Site Installation:

Day 1:	Mechanical
Day 2:	Services
Day 3:	Dry out
Day 4:	Commission
TOTAL:	1 man 4 days

Specifications

Height	1892 mm
Width	812 mm
Length	1270 mm
Stack Height	8000 mm
Weight	2425 kg
Opening for installation	1000 mm wide x 2000 mm high

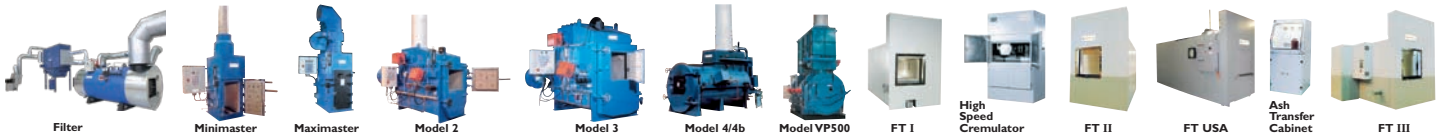
Furnace Capacities

Primary Chamber	0.5m³
Waste Capacity	360 to 450 kg/day over 8 to 10h charging period (approximately the clinical waste from a general hospital sized at 180 to 200 beds)
Machine Weight	2425kg
Electrical Supply	220 / 240V, 50Hz, Single Phase
Full Electrical Loading	
- Standard Vertical	0.4kW (2.4A)
- Horizontal Off-take	1.9kW (14.1 A)

Fuel Consumption

Natural Gas:	(NCV ~ 34.8MJ/m³ / GCV ~ 38.6MJ/m³)
Waste Ignition Burner	Net Rated – 4.5 m³/h
Secondary Burner	Net Rated – 9.0 m³/h
Supply Pressure	at Burner Head – 20mbar
Diesel Fuel Oil:	(NCV ~ 42.8MJ/kg/GCV ~ 45.6MJ/kg)
Waste Ignition Burner	Net Rated – 4.2 litres/h
Secondary Burner	Net Rated – 8.5 litres/h
Supply Pressure	at Burner Head – Flooded Suction

(LPG, Kerosene available on request)



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