



MODEL 2B INCINERATOR



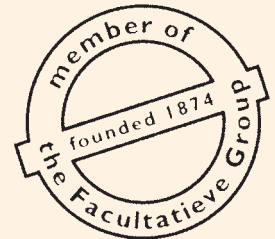
The Model 2B represents a well-proven means of disposing of a wide variety of wastes cheaply and efficiently without the emission of visible fly ash odour or smoke.

Applications

- Clinical
 - Hospital & Pharmaceutical*
 - Pathological
 - Animal / Veterinary*
 - Confidential
 - Documents / Bank Notes*

Throughput:

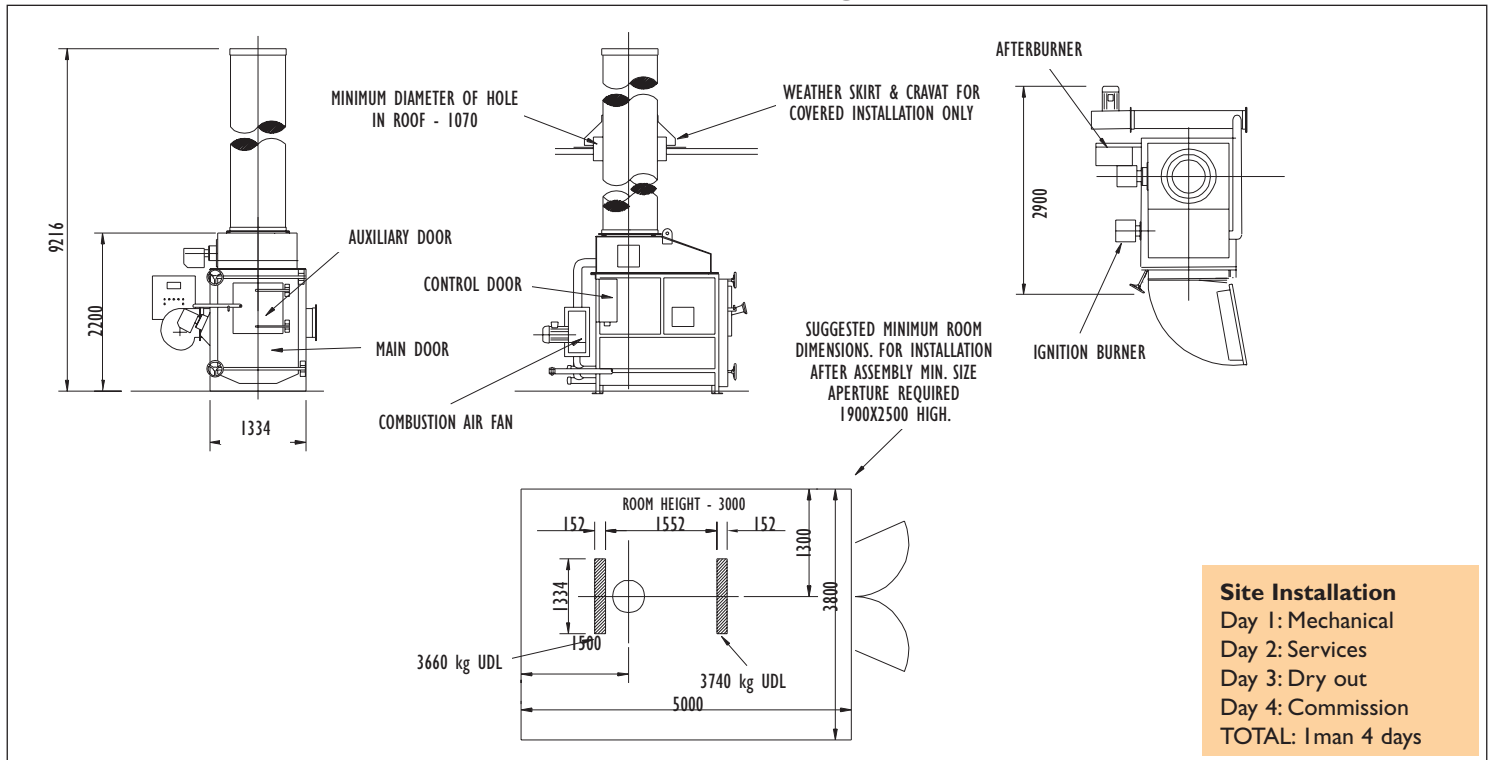
100kg/h clinical waste (based on as received energy content 17MJ/kg and a bulk density of 70kg/m³). Other waste burn rates subject to clarification of waste energy, moisture & ash content along with bulk density for each application.



DESIGN FEATURES:

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

Please refer to technical drawing for further details



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

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 pre-set temperature automatically controlled 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. Fan blown cooling air is added at the secondary chamber exit allowing the gases to exit via the steel stack at a nominal temperature of 400°C.

Specifications

Height	2200 mm
Width	1334 mm
Length	1858 mm
Stack Height	9216 mm
Weight	7400 kg
Opening for installation	1900 mm wide x 2500 mm high

Furnace Capacities

Primary Chamber	1.8m ³
Waste Capacity	800 to 1000 kg/day over 8 to 10h charging period (approximately the clinical waste from a general hospital sized at 300 to 400 beds)

Electrical Supply	380/440V, 50/60Hz, 3 Phase
Full Electrical Loading	
- Standard Vertical	4.5kVA
- Horizontal Off-take	6.0kVA

Fuel Consumption

Natural Gas:	(NCV ~ 34.8MJ/m ³ / GCV ~ 38.6MJ/m ³)
Waste Ignition Burner	Net Rated – 11.3m ³ /h
Secondary Burner	Net Rated – 17.0m ³ /h
Supply Pressure at Burner Head	20mbar
Diesel Fuel Oil:	(NCV ~ 42.8MJ/kg/GCV ~ 45.6MJ/kg)
Waste Ignition Burner	Net Rated – 11.0 litres/h
Secondary Burner Net Rated	17.0 litres/h
Supply Pressure at Burner Head	Flooded Suction

(LPG, Kerosene available on request)

Non-contractual document. Facultatieve Technologies reserves the right to modify its products in order to make technical improvements.

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