



MODEL VP500 ANIMAL CREMATOR

The VP500 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:

'Animal Waste' as bovine (e.g. cattle), ovine (e.g. sheep), equine (e.g. horses), Feline (e.g. cats), canine (e.g. dogs), Poultry (e.g. chickens & turkeys)

Throughput:

400kg/h bovine waste 18 hours per 24 hour period (based on as received energy content 11MJ/kg and a bulk density of 600 to 800kg/m³). Burn rates for the other animal wastes are subject to clarification of energy, moisture & ash content along with bulk density for each application.

Basic Operation:

Preheat

To minimise preheat time all 3 No Ignition burners & the Afterburner are used. Once the Secondary Combustion Chamber (SCC) is at a temperature of 850°C loading of the animal waste can commence.

Ignition

The waste is ignited by the three ignition burners which are then shut down by the operator once self-sustaining combustion has been established allowing the majority of waste to burn without the addition of auxiliary fuel input (depending on waste type).

Loading / Burn Cycle

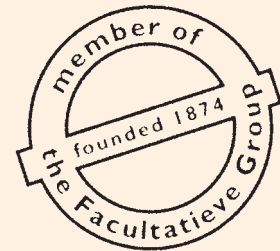
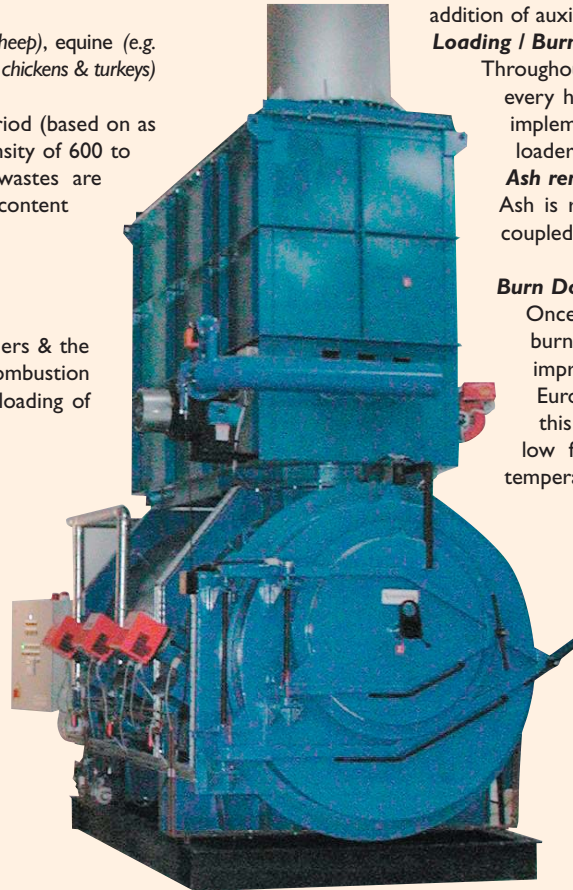
Throughout the 18 hour burn cycle waste is loaded typically every hour using either a fork-lift with specially adapted implement for whole carcass or semi-cylindrical rotary loader for animal parts or high water content waste.

Ash removal

Ash is removed periodically using the ash removal rake coupled to the fork-lift truck.

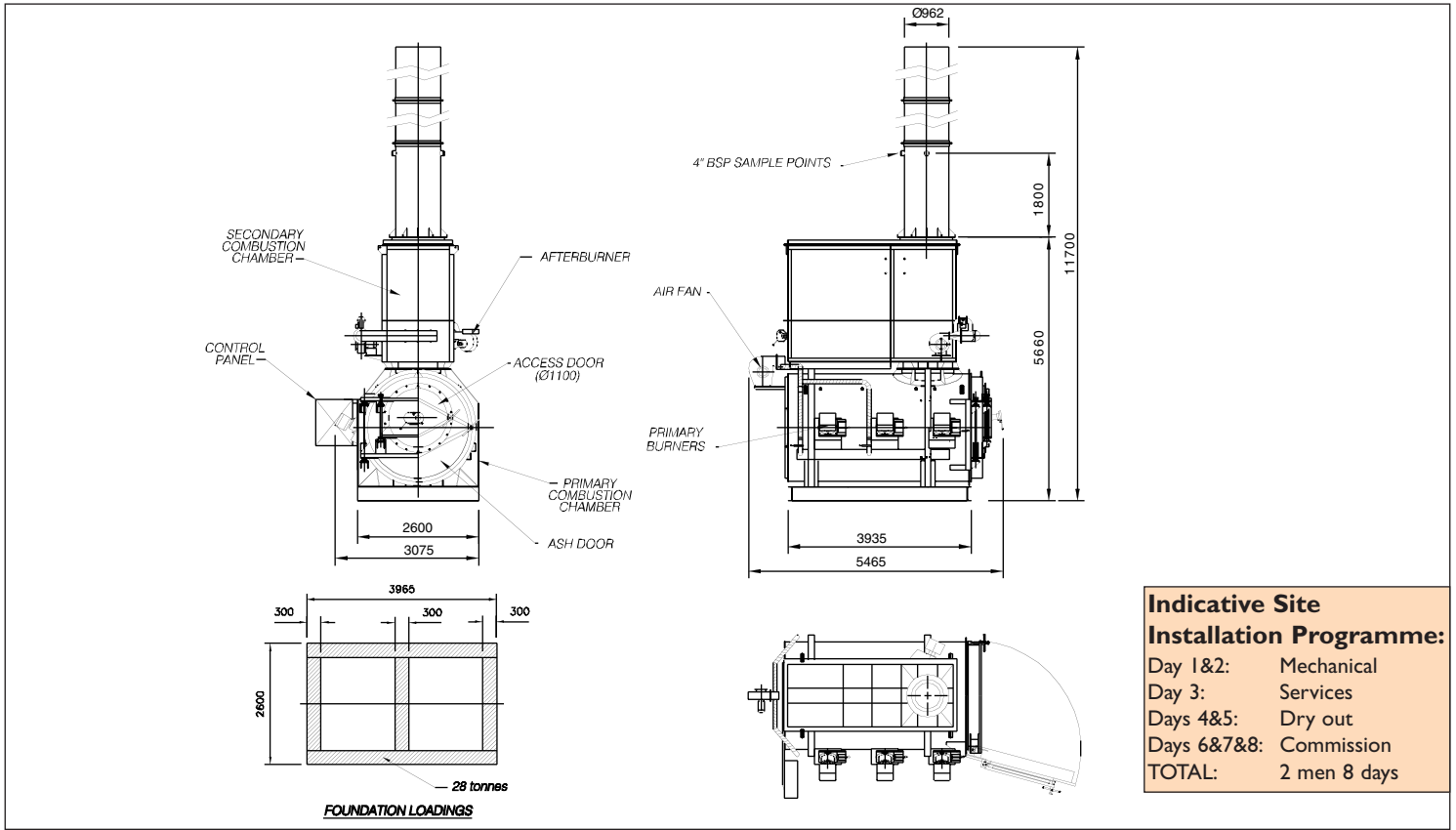
Burn Down Period

Once loading is stopped, a 6 hour period is required to burn down the bed built up during the burn cycle. This improves the ash quality ensuring compliance to European Directive 2000/76/EC ash standard. During this period the afterburner alternates between high & low fire to maintain a secondary combustion zone temperature of 850°C.



DESIGN FEATURES:

- ✓ Simple Robust Construction
- ✓ Pre-wired Packaged Unit
- ✓ Primary & Secondary Chamber with integral burners
- ✓ High Grade Anchored Composite Lining
- ✓ Carbon Residue in ash less than 5% w/w
- ✓ Low Maintenance
- ✓ Refractory lined Steel Chimney
- ✓ Low Utility consumption
- ✓ Electromagnetic Safety Door Lock
- ✓ Manometer Natural Draught Indicator
- ✓ Double Doors for continuous loading and complete man access for ash removal



Indicative Site Installation Programme:	
Day 1&2:	Mechanical
Day 3:	Services
Days 4&5:	Dry out
Days 6&7&8:	Commission
TOTAL:	2 men 8 days

Specifications

Height	5650 mm
Width	3080 mm
Length	3995 mm
Stack Height	11700 mm
Weight	28000 kg
Opening for installation	2950 mm wide x 2950 mm high

Furnace Capacities

Primary Chamber	9.5m ³
Waste Capacity	7200 kg/day over 18h charging period or approximately the animal waste equivalent to 18 large cows approximately 400kg each

Electrical Supply

Full Electrical Loading

- Standard Vertical	15kVA
- Horizontal Off-take	21kVA

Fuel Consumption

Natural Gas:	(NCV ~ 34.8MJ/m ³ / GCV ~ 38.6MJ/m ³)
3No Waste Ignition Burners	Net Rated – 25.8m ³ /h each
Secondary Burner	Net Rated – 32.8/75.1(Lo/Hi) m ³ /h
Supply Pressure	at Burner Head – 20mbar
Diesel Fuel Oil:	(NCV ~ 42.8MJ/kg/GCV ~ 45.6MJ/kg)
Waste Ignition Burner	Net Rated – 25.0 litres/h
Secondary Burner	Net Rated – 31.8/72.7(Lo/Hi) litres/h
Supply Pressure	at Burner Head – Flooded Suction

(LPG, Kerosene, Light Fuel Oil, Tallow on request)

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

I1/04-VP500-USA

List of offices of Facultatieve Technologies

Head Office

Van Stolkweg 29a
 P.O. Box 80532
 2508 GM The Hague, The Netherlands
 Phone: +31 (0) 70 351 88 88
 Fax: +31 (0) 70 351 88 27
 info@facultatieve-technologies.com

China

149 Qiaosong Rd, Sujiatun District
 110101 Shenyang
 Phone: +86 248 981 90 85
 Fax: +86 248 981 90 85
 info@facultatieve-technologies.com

France

Savipol 290/a
 10302 Sainte Savine
 Tél.: +33 (0) 325 49 55 00
 Fax: +33 (0) 325 49 54 49
 info@facultatieve-technologies.fr

The Netherlands

Van Stolkweg 29a
 Postbus 80532
 2508 GM Den Haag
 Tel.: +31 (0) 70 351 88 88
 Fax: +31 (0) 70 351 88 91
 info@facultatieve-technologies.nl

The Americas

734 N. Progress Dr.
 Medina, OH 44256, U.S.A.
 Phone: +1 330 723 63 39 /
 +1 888 883 28 76
 Fax: +1 330 723 58 41
 info.usa@facultatieve-technologies.com

Czech Republic

Tylova 4
 772 00 Olomouc
 Tel.: +420 58 522 69 26
 Fax: +420 58 522 78 42
 info@facultatieve-technologies.com

Germany

Am Markt 9, 24955 Harrislee
 Postfach 1325
 24952 Harrislee
 Tel.: +49 (0)461 77 33 30
 Fax: +49 (0)461 77 33 35
 info@facultatieve-technologies.de

United Kingdom

Moor Road
 Leeds LS10 2DD
 Phone: +44 (0) 113 276 88 88
 Fax: +44 (0) 113 271 81 88
 info@facultatieve-technologies.co.uk

www.facultatieve-technologies.com

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