

NEW PRODUCT!  
HIGH CAPACITY,  
FAST BURNING!

# VOLKAN™

HIGH-EFFICIENCY INCINERATORS



waste  
spectrum

## VOLKAN + 500 series

high-capacity,  
fast-burning  
animal carcass  
incinerator system

VOLKAN is a range of highly efficient incineration systems for the disposal of all types of animal carcass. They are robust, constructed using high quality materials and are available in a range of capacities and burn rates to suit every disposal problem.

The VOLKAN +500 is a high-capacity, powerful, fast-burning, EU legislation compliant incinerator featuring an integral after-burner for greater economy, efficiency and cleaner emissions. It is ideal for the disposal of cattle, pigs, sheep and poultry.



[www.VOLKANincinerators.com](http://www.VOLKANincinerators.com)

# VOLKAN +500 series

## high-capacity, fast burning animal carcass incinerator

### Why choose the VOLKAN +500?

The VOLKAN +500 is specifically designed for the incineration of:

- Cattle carcasses
- Pig carcasses
- Sheep carcasses
- Farm shop and abattoir waste

### Economic and reliable

The VOLKAN +500 is fuel efficient and easy to run, operated by automatic control systems. It is the ideal solution for the fast incineration of large volumes of waste. Constructed from high quality materials in the UK, it comes with one year's free warranty.

### Efficient and easy to use

The VOLKAN +500 is a DEFRA 'Type Approved', top-loading incinerator with a door that slides open to provide clear access for ease of manual or mechanical loading. All controls are placed away from the loading area to avoid damage by loading machinery. The VOLKAN +500 is able to pre-heat the after-burner to the required temperature before loading the carcasses. Once the incinerator has been loaded, a burn program is selected and the incinerator can be left unattended until the carcasses reduce to ash. It is highly efficient, utilising automatic high heat-rate burners, low thermal mass linings and timer controls that ensure minimal running costs; a thermostat triggers burner shut-off when optimum temperatures are reached, increasing fuel efficiency significantly. The model is also designed to use the inherent fuel properties within animal fat that aid combustion. The VOLKAN +500 is fitted with a secondary chamber for ABPR 1069/2009 EU legislation compliance and for cleaner emissions. Easily installed on site, it simply requires concrete hard-standing and a 240-volt electricity & fuel supply. A comprehensive operating, care & maintenance manual is provided with each incinerator.

### VOLKAN +500 series options

Fuel use options	Diesel 35 second fuel oil LPG Natural Gas Bio Gas
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For more information contact:  
E: [sales@WasteSpectrum.com](mailto:sales@WasteSpectrum.com)  
T: +44(0)1905 362100  
F: +44(0)1905 362101

### Why use incineration?

- Simple on-site installation
- Bio-security – no carcass transfers
- Efficient, low-cost disposal
- Controlled environmental emissions
- Low maintenance costs



### VOLKAN +500 – specifications at a glance

Primary Volume	4.95m <sup>3</sup> >3 tonnes <sup>3</sup>
Load Capacity	up to 2,000 kg
Burn Rate*	up to 500Kg/hr*
Load Method	Top
Electricity Supply	230VAC required
Weight	11.7 tonnes
Dimensions	6.06m(l) x 2.71m(w) x 3.95m(h) (without stack)

\*Figures based on typical figures gained from an average burn cycle.

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## technical specifications

### Model:

HURIKAN +500 Emergency Incineration Unit

### Waste Type:

Whole animal carcass remains or animal carcass waste, medical and organic waste.

### Construction:

Mild steel welded fabrication consisting of sheet steel and structural section supports and bracings. Articulated trailer supplied in compliance with the country of destination.

### Lining:

#### Primary chamber

Consists of a monolithic high grade refractory concrete with high grade insulation backing, typical hot face temperature linings from 1300°C. Utilising a refractory hearth for continuous ash removal

#### Secondary Chamber

Consists of high density, low thermal mass refractory ceramic fibre with an innovative low emissivity protective coating.

### Burners:

Fully automatic, high efficiency burners with electronic ignition, flame recognition and combustion control devices fitted.

### Process monitoring:

The standard control incorporates digital display for both primary and secondary chamber temperatures throughout each cycle. Cycle position is also displayed on control LCD display screens.

### Optional Extras

- Temperature data recording equipment
- Fuel tank
- Portable Generator – petrol or diesel fuelled
- Emission Monitoring Equipment
- Extended stack

### Compliance:

EU Animal by-product regulation ABPR 1069/2009, UK Animal by-products regulation 2005. Secondary chamber gas residence time >2 seconds @ 850°C.

### Electrical supply:

230VAC, single phase, 50Hz, 16A minimum, mains or generator supplied. Waste Spectrum offer optional petrol or diesel fuelled generators if required.

### Loading & Ash removal:

One large top access sliding door for mechanical top loading of waste. A full refractory hearth enables the ash to drop through into the de-ashing area. This enables continuous incineration.

### Exterior finish:

Multi-coat high quality, high temperature Aluminium enamel top coat paint finished in silver.

### Control:

Fully automatic sequential control provided by internal PLC system providing the following control

- a. Secondary chamber pre-heat
- b. Burn cycle (variable)
- c. Turndown cycle
- d. Cool down cycle

\*Semi-automatic loading with burner interlock control

### Fuel:

Diesel, 35 second fuel oil. (LPG also available)

### Specifications:

Primary Volume	4.95m <sup>3</sup> >3 tonnes
Burn Rate*	<500kg/hr
Load Method	Top

### Typical Dimensions:

Overall Length	6.06m
Overall Width	2.71m
Overall Height	
Overall Height	
in transit	3.94m
in operation	
(with standard	
stack)	6.6m
(with optional	
extended stack)	8.20m
Weight	11.7 tonnes

\*Based upon the calorific value of waste steam. Figures based on typical figures gained from an average burn cycle.  
Waste Spectrum Environmental Ltd continually strives to improve its products and therefore reserves the right to introduce modifications to their product range without notice.

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