

The Volkan 450



The Volkan 450 is a purpose built model designed for free range and intensive broiler operations in the poultry sector. Manufactured as standard with 7, 9 or 11, our unique configurable hearth bar system will allow you to fully configure the number of hearth bars you use in your machine, based on the waste type. Delivered with a total of 14 hearth bars as standard, you will have between 3 and 7 spares. With above and below hearth burners this model is capable of managing low and high capacity throughputs. The Volkan 450 is perfect for adapting to the variable throughput of a broiler operation either for managing day-to-day mortality or whole building clean down after emptying.

As with all models in the Volkan Range, the Volkan 450 is supplied with an integral secondary chamber, ensuring it fully conforms to EU By-Products Regulation (ABPR) (EC) No 142/2011, DEFRA Regulations and many other legislative bodies around the world.

Key Features:

- Ash doors, one located at the front and one located at the side for maximum efficiency when de-ashing, with the supplied Ash Rake
- Two air vents to increase oxygen content when disposing of high calorie waste
- Monolithic Lining
- Tri-Zone temperature control monitoring enables optimal fuel usage and air control
- Top loading counterbalance lid, providing easy access to the main chamber
- Two temperature controlled burners located in the main chamber and one in the secondary chamber for optimal efficiency
- Low thermal mass linings for minimal heat loss
- PLC timer controls with automatic burner shut off function and rapid ignition pulse fired burners for low running costs
- Burns up to 50kgs/111 lbs an hour
- Can be loaded whilst in operation, maximising throughput whilst utilising the inherent thermal efficiency of our monolithic lining

Ideally Suited For:

- Broiler Operations
- Free Range Chicken Units
- Commercial Layer Producers

Optional Features:

- Basket (For Smaller Animals e.g. Chicks)
- Stack Extension
- USB Data Logger
- *High Burn Rate Model Available
- Heat Exchanger



*Higher burn rates are dependent on efficient usage and waste type. This may be subject to your local regulations. Speak to a member of our team for more information.

The Volkan 450 Specifications

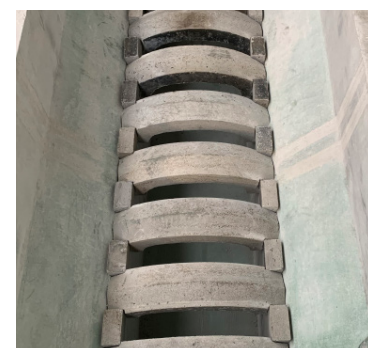


Specifications	Unit - Metric		Unit - Imperial	
Burn Rate	Up to kg/hr	50	Up to lbs/hr	111
Front / Top Load		Top		Top
Static Operational Dimensions (LxWxH)	m *inc Standard Stack	3.4 x 3.0 x 3.3	feet/inch *inc Standard Stack	11'0" x 10' x 10'11"
External Height - Static	mm *inc. Stack	3340	feet/inch *inc. Stack	10'11"
External Height - Static	mm *ex. Stack	2186	feet/inch *ex. Stack	7'2"
Weight	Tonne *estimated	3.4	lbs *estimated	7496
Concrete Pad Size (L x W)	m *recommended	5.4 x 5.0	feet/inch *recommended	17'7" x 16'7"
Fuel Consumption Diesel	LPH *est during main burn	8 - 12	GPH *est during main burn	2.2 - 3.1
Fuel Consumption LPG	LPH *est during main burn	11 - 18	GPH *est during main burn	2.3 - 4.7
Fuel Consumption Nat Gas	m ³ /h *est during main burn	8 - 12	ft ³ /h *est during main burn	295 - 417
Hearth Bars		7/9/11		7/9/11
Load Door Opening (Width x Height/Depth)	mm *area	2148 x 1060	ft/inch *opening	7'1" x 3'6"
Chamber Size (LxWxH)	m	2.1 x 1.1 x 0.5	ft/inch	7'1" x 3'6" x 1'8"
Chamber Actual Volume	m ³	1.14	ft ³	40
Chamber Load Volume	m ³	0.91	ft ³	32
Chamber Load Capacity	kg	510	lbs	1125
Std Stack Diameter	inch/mm *2D size	16"	inch/mm *2Dsize	16"
No. Main Burners		2		2
No. Secondary Burners		1		1
Burner Output	kW *heat	197	Btu *heat	672,192
Electric Consumption	kW*electric	0.35	kW *electric	0.35

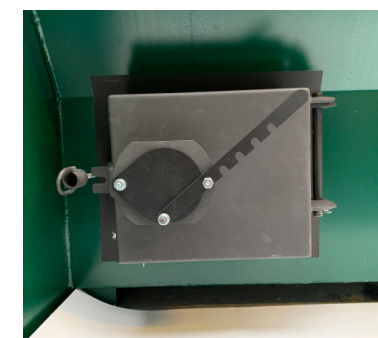
The Waste Spectrum Way:

Here at Waste Spectrum, we do things a little differently.

- Each machine is hand crafted by our team of industry experts at our workshop in the Heart of England.
- Integral to our machines quality is the monolithic casting system, a technology that is unique to the Waste Spectrum brand. The monolithic casting system ensures maximum strength and reliability as the materials can expand and contract at the same rate, unlike brick lined machines. The insulation board reduces heat loss and the stainless anchor system maintains the integrity of the lining.
- The Waste Spectrum monolithic casting system ensures the longevity and reliability of our machines, as they can achieve high temperatures without posing risk to the machines structural integrity.
- Behind the Waste Spectrum brand is a team of experts who are always on hand to discuss any queries or questions that you may have about incineration.



Hearth Bars View



Air Vent