

# The Volkan 500 M



Highly versatile and suitable for applications across the Medical Sector, the Volkan 500 M is an ideal solution for those requiring a front-loading option that provides efficient and bio-secure incineration for medical and clinical waste types. As standard the Volkan 500 M utilises a concrete specifically graded for the Medical sector, making it ideal for primary medical services, hospitals, surgical units and private cosmetic surgery practices as it facilitates the incineration of day-to-day medical and clinical waste. Due to the nature of the waste streams and dependent upon local legislation, it may be necessary to include additional emissions control or additional filtration and if required, the Waste Spectrum team will provide additional information and support.

As with all models in the Volkan Range, the Volkan 500 M 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:

- Large front-loading door, provides exceptional access to the main chamber and is ideally suited for large bags of medical waste
- The Volkan 500 M's monolithic lining uses concrete specifically graded for the Medical sector
- Two temperature controlled burners 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 the inherent thermal efficiency of our monolithic lining

## Ideally Suited For:

- Type 4 pathological waste (red bag)
- Surgical waste
- Needles
- Sharps bins
- Bandages / dressings / tissues / bedding
- Blood / plasma / flesh
- Body parts/ flesh / infected bodies
- Laboratory waste
- Samples and test tubes

## Optional Features:

- USB Data Logger
- Loading Trolley
- Winch Lift
- Heat Exchanger
- Sight Glass



# The Volkan 500 M Specifications



Specifications	Unit - Metric		Unit - Imperial	
Burn Rate	Up to kg/hr	50	Up to lbs/hr	111
Front / Top Load		Front		Front
Static Operational Dimensions (LxWxH)	m *Inc Standard Stack	2.6 x 1.6 x 5.1	feet/inch *Inc Standard Stack	8'5" x 5'4" x 16'8"
External Height - Static	mm *inc. Stack	5069	feet/inch *inc. Stack	16'8"
External Height - Static	mm *ex. Stack	2019	feet/inch *ex. Stack	6'7"
Weight	Tonne *estimated	2.7	lbs *estimated	5953
Concrete Pad Size (L x W)	m *recommended	4.6 x 3.6	feet/inch *recommended	14'11" x 11'11"
Fuel Consumption Diesel	LPH *est during main burn	6 - 9	GPH *est during main burn	1.6 - 2.3
Fuel Consumption LPG	LPH *est during main burn	8 - 13	GPH *est during main burn	1.5 - 3.5
Fuel Consumption Nat Gas	m <sup>3</sup> /h *est during main burn	6 - 9	ft <sup>3</sup> /h *est during main burn	220 - 311
Metal Hearth		No		No
Load Door Opening (Width x Height/Depth)	mm *area	894 x 706	ft/inch *area	2'11" x 2'4"
Chamber Size (LxWxH)	m	1.8 x 0.9 x 0.7	ft/inch	6' x 2'11" x 2'4"
Chamber Actual Volume	m <sup>3</sup>	1.16	ft <sup>3</sup>	41
Chamber Load Volume	m <sup>3</sup>	0.47	ft <sup>3</sup>	17
Chamber Load Capacity	kg	260	lbs	573
Std Stack Diameter	inch/mm *2D Size	10"	inch *2D Size	10"
No. Main Burners		1		1
No. Secondary Burners		1		1
Burner Output	kW *heat	147	Btu *heat	501, 585
Electric Consumption	kW *electricity	0.25	kW *electricity	0.25

## 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.



Internal Chamber View



Optional: Loading Trolley