

# The Volkan 450 AC



The Volkan 450 AC is a top-loading incinerator designed as a purpose-built model for Aquaculture operations and commercial fisheries. The Volkan 450 AC's unique configurable hearth bar system is manufactured as standard with 7, 9 or 11 hearth bars. Dependant on your operation, it will allow you to adapt the hearth bars to suit all types of fish farm operations. Delivered with a total of 14 hearth bars as standard, you will have between 3 and 7 spares. The addition of air-vents enables users to increase the oxygen flow within the main chamber, optimising the overall efficiency of the machine when disposing of high calorie value waste types. The Volkan 450 AC is perfect for adapting to the variable throughput of a medium to large Aquaculture operation, either for managing the day-to-day stock mortalities of a few fish or large-scale mortalities resulting from disease or an environmental event. As with all models in the Volkan Range, the Volkan 450 AC 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
- Marine standard silicone enamel paint finish, capable of withstanding harsh environments
- 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 1 in the secondary chamber for optimal efficiency
- Low thermal mass linings for minimal heat loss
- IP66/67 Control Panel
- 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:

- Fish Farms

## Optional Features:

- Basket (For Smaller Fish or Fish Eggs)
- Stack Extension
- USB Data Logger
- Heat Exchanger



# The Volkan 450 AC 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' 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 <sup>3</sup> /h *est during main burn	8 - 12	ft <sup>3</sup> /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 <sup>3</sup>	1.14	ft <sup>3</sup>	40
Chamber Load Volume	m <sup>3</sup>	0.91	ft <sup>3</sup>	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



Optional: Fish Basket