



Gas Fired Thermal Oxidizer VGTO-250

The VGTO is a vertically orientated, natural gas or propane pre-heated thermal oxidizer designed to treat hydrocarbon contaminated air streams from either SVE systems or groundwater air strippers or both.

The VGTO thermal oxidiser has an optional catalyst module, which can be inserted in the field. The VGTO is designed to operate completely independent of other process however it typically requires an enable-disable signal interface with the secondary process control panel.



This unit should not be used for the treatment of vapours associated with chlorinated hydrocarbons.

Base System Components

Vertical Steel Shell	UL Listed 508
High Temperature Refractory	Remote Telemetry First Outage Fault Finder
Common Base Skid Mounted	Thermocouple Temperature Control
Oxidizer Process Blower	Combustion Air Blower
Inlet Flame Arrestor	Automatic Purge/Dilution Control
Primary Air Burner & FM Gas Train	Air Flow Sensor and Gauges
380mm - 15" AGL S.S. Exhaust Stack	Optional Instrument Package
Relay Logic Control Panel	Hour Meter

Turning liabilities into assets

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Specifications

Maximum Air Flow Capacity:	250 SCFM (420m ³ / hr)
Minimum Air Flow:	100 SCFM (150m ³ / hr)
Maximum Inlet Temperature from Source:	180° F (80° C)
Gas Pre-Heater:	685,000 BTUH (200kW)-
Inlet Connection:	4" (100mm) Flexible
Stack Diameter / Height:	15" (380mm)/15' (4.5m) Above Ground
Thermal Operating Temperature:	1400° F (760°C)
Maximum Thermal Operating Temperature:	1750°F (950°C).
Catalyst Module:	Precious Metal Monolith
Catalyst Operating Temperature:	650°F (340°C)
Maximum Catalyst Operating Temperature:	1200°F (645°C)
Thermal Mode Destruction Efficiency:	99%
Designed Hydrocarbon Throughput Thermal Mode:	50% LEL
Noise level:	<80 dBA at 3' (1m)
System Size:	L 90"(2.286) W 72" (1.829m) H 77" (1.956m)
System Weight:	4,500lb (2042kg)
Optional Catalyst Module:	Precious Metal Monolith
Catalyst Gas Hourly Space Velocity:	40,000 GHSV ⁻¹
Catalyst Destruction Efficiency:	>99% Overall for TPH
Catalyst Volume:	0.458 ft ³ (12900cc)
Maximum Catalyst Hydrocarbon Throughput:	5% LEL
Oxidizer Process Blower:	3hp (2.2kW)
Combustion Air Blower:	2hp (1.5kW)
Time To Reach Operating Temperature:	20min (from ambient)
Power Requirements:	415VAC 3 Phase 10 Amp