VGTO Series Vertical Thermal Convertible Oxidizer

Features & Specifications

- 1350-1600°F thermal operating temperature range with a maximum hydrocarbon throughput of 40% LEL
- All Welded Steel reactor shell construction, ASTM A-36 7 gage sheet with epoxy finish
- 6" Thick 2200°F mineral fiber board insulation
- 304 Stainless steel zero incidence exhaust stack with sampling port
- Completely assembled and tested gas trainwith all necessary shut off valves and switches in accordance with NFPA 86, indicating pressure gages with shutoff cocks for incoming, regulated, pilot, & burner gas pressure
- Gas train meets NFPA 79, 86, & 54 & is suitable for FM approval
- Natural gas or propane direct fired secondary air burner
- Exothermic burner control & temperature alarms
- Panel mounted and wired on oxidizer sk wiring meets NEC for non-classified area
- Welded steel skid, enamel finish & fork Pockets
- Optional Noble metal catalysts insert with maximum operating temperature of 1200°F minimum operating temperature 600°F, maximum 25% LEL throughput in catalytic mode
- Centrifugal inlet vapor blower to provide for pressure loss through oxidizer and ensure purge air on startup, steel construction, <80 dBA at 3' in open field conditions
- Purge valve assembly with: manually operated process isolation butterfly valve with limit switch interlock, motorized modulating purge/bleed butterfly valve which automatically closes upon completion of purge
- Flame arrestor on vapor inlet with spiral crimped ss ribbon matrix
- UL 508 listed NEMA 4 main control panel with: inner door mounted displays and switches, main door interlocking electrical disconnect, control power transformer, motor starter, and overload protection for the blower
- Allen Bradley Micro 1000 PLC with single touch visual display with first out alarm indicator
- Flame rod with approved safety programmer with built in purge timer
- Thermocouple temperature control monitoring burner temperature and exhaust temperature

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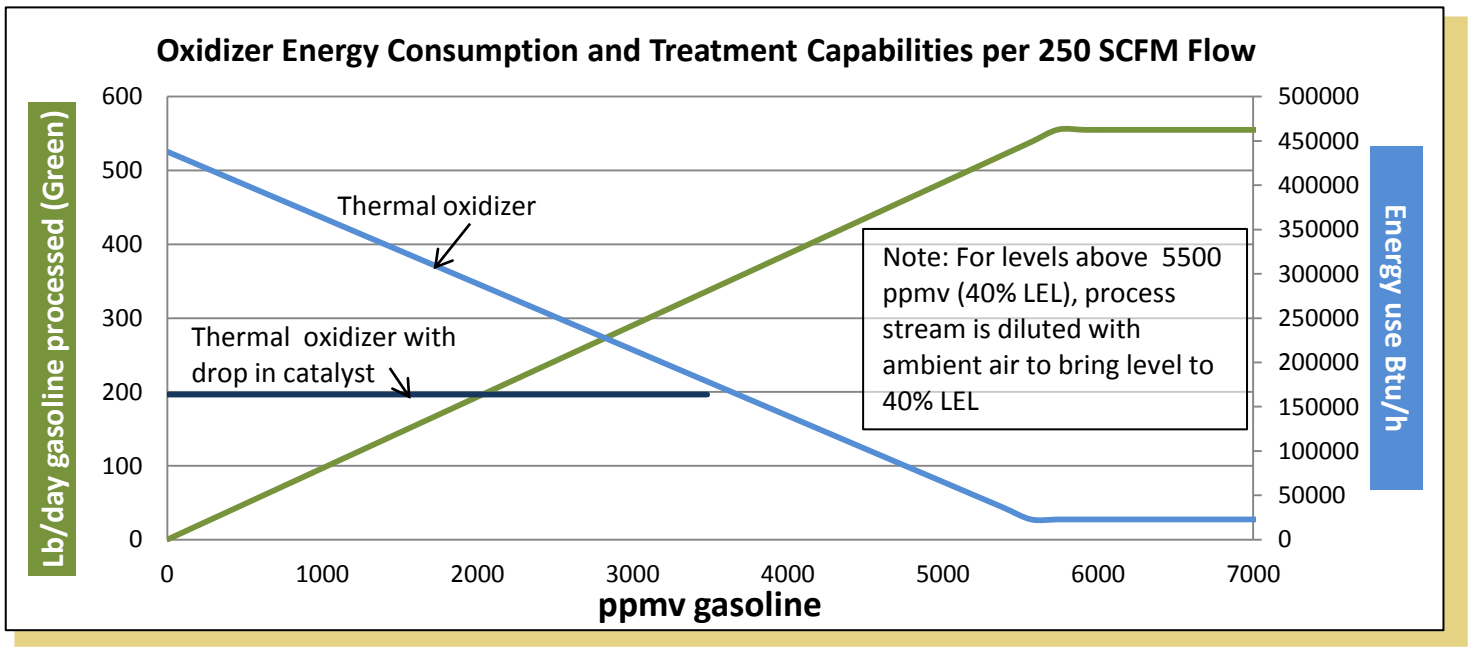
Applications

- Remediation industry
- Free phase hydrocarbon product recovery systems
- Air stripper off gas treatment
- High concentration dissolved phase hydrocarbon recovery systems
- Bio venting & Bio-pile systems
- Off gas treatment from dual phase, soil vacuum extraction and soil venting systems

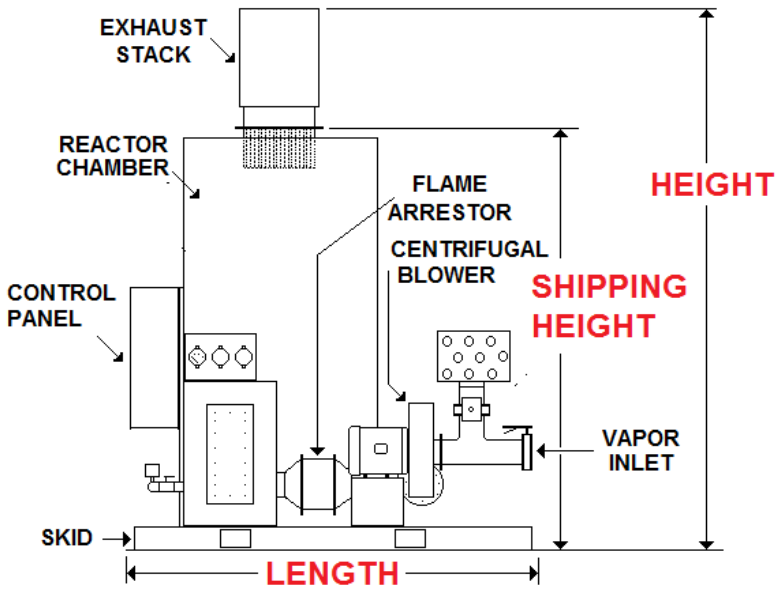
H2K Technologies, Inc.
7550 Commerce St
Corcoran, MN 55340
Phone: 763.746.9900
Fax: 763.746.9903
www.H2KTECH.com
Sales@H2KTech.com

Model Number	Rated Flow SCFM	Length Ft.	Height Ft.	Ship Height Ft.	Dim Width Ft.	Available Voltage	Shippimg Weight Lbs.
VGTO-2	100-300	5’	6’	15’	5’	230 VAC 1 phase 230/460 VAC 3 phase	2,500
VGTO-3	200-400	6’	6’	15’	6’	230 VAC 1 phase 230/460 VAC 3 phase	3,400
VGTO-5	400-600	8’	8’	15’	8’	230 VAC 1 phase 230/460 VAC 3 phase	5,000
VGTO-7	600-800	8’	8’	15’	8’	230/460 VAC 3 phase	5,700
VGTO-9	800-1,000	8’	8.2’	15’	10’	230/460 VAC 3 phase	7,500
VGTO-12	1,100-1,500	8’	8.2’	15’	10’	230/460 VAC 3 phase	8,500
VGTO-18	1,600-2,000	8’	8.2’	15’	12’	230/460 VAC 3 phase	9,500



1. Gasoline assumed to be 107 MW, 19,000 BTU/lb. Net and 1% Vol. = LEL @ ~ 53 BTU/SC

2. If maximum %LEL (temperature) is reached ambient air must be bled into the system to stay below the maximum allowable operating temperature.



Options

- Nominal 50% Efficient air/air heat exchanger to recover up to 50% of exhaust heat to inlet vapor stream, stainless steel construction, note H/X cannot be run in thermal mode
- 2-pen (or more) chart recorder for recording, burner and exhaust temperatures
- 95% or 99% destruction efficiency drop in catalyst, noble precious metal with ss ribbon matrix
- LEL sensor, to measure inlet vapor %LEL
- Flow, pressure, level & temperature gages or transmitters
- Air flow meter or transmitter