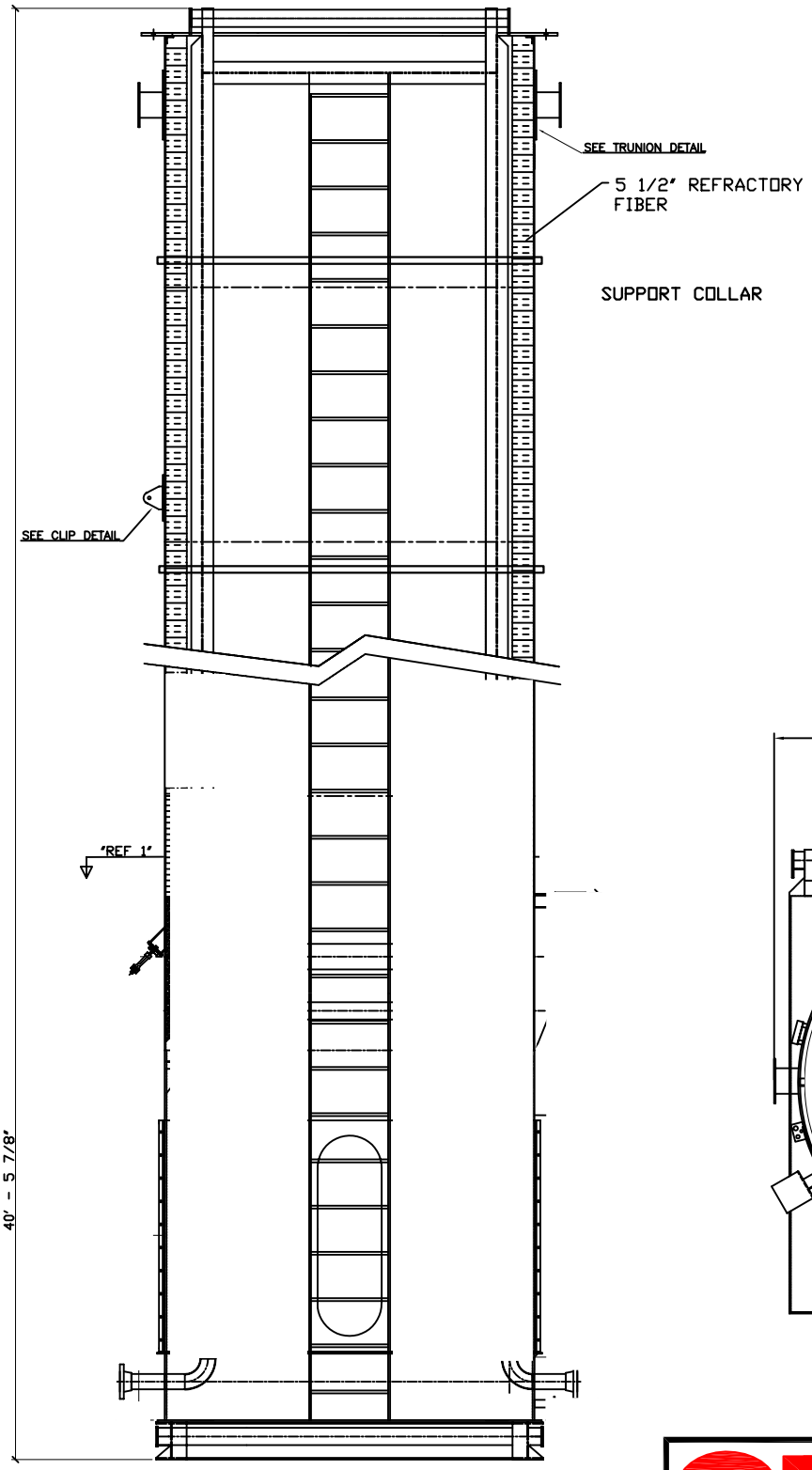

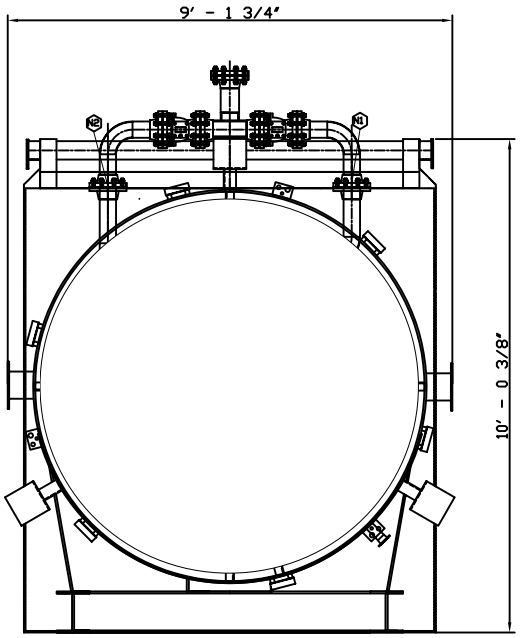

ESTIMATED WEIGHT 36,000LB'S

QUESTOR TECHNOLOGY INC.
Suite 510, 100 - 4th Avenue SW
CALGARY, ALBERTA, T2P 3N2

CUSTOMER:			
CLIENT:	LOCATION:		
Rental Skidded Q3000 Q3000 TYPICAL DETAILS			**Q3000**
DWN. BY: J.V.	DATE: 12/02/2004	JOB#:	
APP. BY: D.M.	DATE: 12/02/2004	,	REV.#: 0

QUESTOR TECHNOLOGY INC.

QUESTOR Q3000 INCINERATOR

TECHNICAL SPECIFICATIONS

Design Basis

Maximum throughput:	3,000,000 scf/d of methane equivalent gas
Fuel requirement:	(varies depending upon waste gas composition)
Design operating temperature:	600 to 1200 ^{o}C

Questor Q3000 Incinerator Detail

Foot print:	8 feet, 4 ½ inches W x 10 feet, ⅜ inches D (2.55 m x 3.06 m)
Number of sections:	1 – Stack and air induction combined
Stack material:	¼ inch plate A36 - Refractory lined
Stack OD:	96 inches (243.8 cm)
Stack Refractory I.D.:	84 ½ inches (214.6 cm)
Stack length:	24 feet (7.3 m)
Stack wall thickness:	0.25 inches (6.4 mm)
Air induction OD:	96 inches (243.8 cm)
Air induction length:	10 feet, 5 inches (3.1 m)
Air induction shell material:	½ inch plate A36
Air induction shell wall thickness:	0.5 inches (12.7 mm)
Skid base	8 feet, 4 ½ inches W x 10 feet, ⅜ inch D x 10 inch H (2.55 m x 3.06 m)
Skid Side	40 feet, 5 ⅞ inches H x 6 feet, 10 ¼ inches W x 10 ⅛" D (12.34m H x 2.09 m W x 25.7 cm D)
Flanges	150 ANSI A105 FWN
Bolting	A335

Refractory Specification

Type:	Kaolite 2500-HS Fibre Module
Thickness:	5 ½" inches
Manufacturer:	ThermalCeramics
Maximum working temperature:	2500 ^{o}F or 1371 ^{o}C

Gas Supply Connections

Pilot gas:	¼ inch NPT
Fuel gas:	4 inch 150 ANSI, RF Flanged
Waste gas:	4 inch 150 ANSI, RF Flanged
PSV Vent #1:	4 inch 150 ANSI, RF Flanged
PSV Vent #2:	4 inch 150 ANSI, RF Flanged

Questor Technology Inc., Suite 510, 100 - 4th Avenue SW, Calgary, Alberta, Canada, T2P 3N2 Phone: (403) 571 - 1530 Fax: (403) 571 - 1539 http://www.questortech.com/

QUESTOR TECHNOLOGY INC.

QUESTOR Q3000 INCINERATOR

TECHNICAL SPECIFICATIONS

Combustion Air

Natural draft:	7 screened openings with adjustable dampener

Pilot Gas Burner

Pilot Ignition Control:	IGN 14, continuous spark
Number of Igniters:	3
Capacity at 3 psi:	1200 scf/d per pilot
Pressure Regulator:	Fisher 67CFR

Fuel Gas Burner

Source:	Fuel gas or waste gas
Operating Pressure Range:	5 - 50 psig
Quantity/Size:	One, 4”
Manifold material:	Stainless steel 304

Waste Gas Burner

Source:	High-pressure gas sources
Operating Pressure Range:	5 - 50 psig
Quantity/Size:	One, 4”
Manifold material:	Stainless steel 304

PSV Vent

Source:	Pressure Safety Valves or other low pressure sources
Operating Pressure Range:	0 to 50 psig
Quantity/Size:	Two, 4”
Manifold material:	Carbon steel, A106 B
Manifold Nozzles:	None; open ended pipe

Ignition Control Panel

Local control panel:	Nagy Burner Controls, IGN 14, 24 VDC controls, Class 1 Div 2 classification
Ignition coil boxes:	Hoffman, NEMA 4 x enclosures
Power Source:	Solar panel c/w 24 V battery, Class 1 Div 2 classification

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Stack Top Temperature Monitoring

Thermocouple:	Type K, Inconel 600
Thermowell:	12” insertion, Hastelloy X
Readout:	Omron K3MA-L digital temperature readout
Cable:	Teck, armored, 1 pair, type K, 16 gauge

Surface Preparation and Coating

Sand blast:	SP6
Primer:	ClovaZinc 2 – Inorganic Zinc Rich Primer
Top coat:	ClovaTherm – Hi-Heat Resistant Air Dry Silicone Coating

Optional Equipment

Support legs	Swing out, adjustable height legs
Guy wires:	3 sets of galvanized cable c/w thimbles, clips, shackles and turnbuckles
Inline flame arrestor:	3” 150 ANSI, RF, Steel body, SS cell

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