



ESTIMATED WEIGHT 8,500LB'S

OTI		QUESTOR TECHNOLOGY INC.	
		510, 100 - 4th Ave, SW	
		CALGARY, ALBERTA, T2P 3K7	
CUSTOMER:		LOCATION:	
CLIENT:		LOCATION:	
Q250 TYPICAL DETAILS			Q250
DWN. BY: J.V.	DATE: /2005	JOB#: 2005	
APP. BY: D.M.	DATE: /2005	QUOTATION	REV.#:



QUESTOR Q250 INCINERATOR

TECHNICAL SPECIFICATIONS

Design Basis

Maximum throughput:	250,000 scf/d of methane equivalent gas
Fuel requirement:	(varies depending upon waste gas composition)
Design operating temperature:	600 to 1200 °C

Questor Q250 Incinerator Detail

Total height:	25 ½ feet (7.7 meters)
Total weight:	8,500 lbs (3,855 kg)
Foot print:	3' - 6" OD (1.067 m)
Number of sections:	1 – Stack and air induction
Stack material:	A36 - Refractory lined
Stack OD:	36 inches (91.5 cm)
Stack Refractory I.D.:	28.3 inches (71.9 cm)
Stack length:	16 feet (4.9 m)
Stack wall thickness:	0.25 inches (6.4 mm)
Air induction material:	A36
Air induction OD:	36 inches (91.5 cm)
Air induction length:	8 feet (2.4 m)
Air induction wall thickness:	0.50 inches (12.7 mm)
Wind shroud:	Stainless steel, 4' - 10 " OD
Flanges	A105 BWRP
Bolting	A335

Refractory Specification

Type:	4LI
Thickness:	3 inches
Manufacturer:	Rescocast
Maximum working temperature:	2600°F (1427°C)



QUESTOR Q250 INCINERATOR

TECHNICAL SPECIFICATIONS

Gas Supply Connections

Waste gas:	4 inch RFWN
Pilot gas:	¼ inch NPT
Fuel gas:	1 inch RFWN

Combustion Air

Natural draft:	3 openings c/w flame arrestor cells (Optional)
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Pilot Gas Burner

Pilot Ignition Control:	Profire 1100,
Number of Igniters:	1
Capacity at 3 psi:	1200 scf/d

Fuel Gas Manifold

Manifold material:	Stainless steel 304
Nozzle – orifice	Varies

Waste Gas Manifold

Operating Pressure Range:	1 – 40 psig
Manifold material:	Stainless steel 304
Nozzle – orifice	Varies



QUESTOR Q250 INCINERATOR

TECHNICAL SPECIFICATIONS

Control Panel

NEMA 4, local control panel: 120 VAC heater/24 VDC controls
Ignition panel: NEMA 4 x enclosure

Surface Preparation

Sand blast: SP6
Top coat: High temperature aluminum

Fuel Management System – Compliance with CSA-B149.3

Stack top temperature: Type K Thermocouple, Inconel 600 thermowell
Temperature transmitter: Rosemount Type 644 with local readout and signal to PLC
Motor valve: Fisher Type 119
I to P converter: Fisher Type 646

Optional Equipment

Inline flame arrestor: 150 ANSI, RF, Steel body, SS cell
Air intake flash back arrestors: Spiral wound aluminum