



ELEVATION
(NOT TRUE ORIENTATION)

BASE PLATE DETAIL

 QUESTOR TECHNOLOGY INC. 510, 100 - 4th Ave SW CALGARY, ALBERTA, T2P 3K7			
CUSTOMER:		LOCATION:	
CLIENT:		LOCATION:	
Q50 INCINERATOR – ELEVATION			
DWN. BY: J.V.	DATE: 25/08/04	JOB#: 2004	
APP. BY: D.M.	DATE: 25/08/04	DWG.# QUOTATION	REV.#: 



QUESTOR Q50 INCINERATOR

TECHNICAL SPECIFICATIONS

Design Basis

Maximum throughput: 50,000 scf/d of methane equivalent gas
Fuel requirement: (varies depending upon waste gas composition)
Design operating temperature: 600 to 1200 °C

Questor Q50 Incinerator Detail

Total height: 25 ½ feet (7.7 meters)
Total weight: 4,000 lbs (1,814 kg)
Foot print: 2 feet – 3 ¾ inch Dia (0.84 m Dia)
Number of sections: 3 – Stack and air induction
Stack material: A36 - Refractory lined
Stack OD: 20.0 inches (51 cm)
Stack Refractory I.D.: 13.5 inches (34 cm)
Stack length: 16.0 feet (4.9 m)
Stack wall thickness: 0.25 inches (6.35 mm)
Air induction material: A36
Air induction OD: 20.0 inches (51 cm)
Air induction length: 8 feet – 5 inches (2.5 m)
Air induction wall thickness: 0.500 inches (12.7 mm)
Wind shroud: Stainless steel, 2 feet – 6 inches OD
Flanges: A105 BWRF
Bolting: A335

Refractory Specification

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

Gas Supply Connections

Waste gas: 3 inch 150ANSI RFWN
Pilot gas: ¼ inch NPT
Fuel gas: 2 inch 150ANSI RFWN



QUESTOR Q50 INCINERATOR

TECHNICAL SPECIFICATIONS

Combustion Air

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

Pilot Gas Burner

Pilot Ignition Control: Profire 1100,
Number of Igniters: 1
Capacity at 3 psi: 34 m³/d

Fuel Gas Burner

Operating Pressure Range: 5 - 7 psig
Manifold material: Stainless steel 304

Waste Gas Burner

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

Control Panel – (Solar Power Battery)

NEMA 4, local control panel: 24 VDC controls
Ignition panel: NEMA 4 x enclosure

Surface Preparation

Sand blast: SP6
Top coat: High temperature aluminum



QUESTOR Q50 INCINERATOR

TECHNICAL SPECIFICATIONS

Optional Equipment

Stack top temperature:	2 – Alltemp Type K Thermocouple, Inconel 600 & Hastelloy X thermowell 2 – Rosemount 644 Temperature Transmitters
Air intake flame arrestors:	3 – Circular wrapped corrugated aluminum flash Back arrestors 4" thick x 15" diameter 1 – Zirco burner box housing flame arrestor
Inline flame arrestor:	1 - 3" 150ANSI RF flanged, CS body, SS element Flame arrestor
Matching base plate:	1 – ½" x 2' 3 ¾" plate with matching ⅞" bolt holes
Guy Wires	3 - ⅜" x 100' guy wires