



Q100 FEATURES

- 99.999% COMBUSTION EFFICIENCY
- 3" REFRACTORY LINED STACK
- HANDLES LOW PRESSURE WASTE GASES
- 3 AIR INTAKES
- CSA B149.3 COMPLIANT FUEL TRAIN
- TYPE K STACK TOP THERMOCOUPLE
- DIGITAL STACK TOP TEMPERATURE READOUT
- 1" SAMPLE PORT AT STACK TOP
- 2" FLANGED FUEL GAS INLET
- 3" FLANGED WASTE GAS INLET
- 1" DRAIN OUTLET (PLUGGED)
- 304 SS WIND SHROUD
- TEMP CONTROLLED FUEL SYSTEM (OPTIONAL)
- FLASH BACK AIR ARRESTED (OPTIONAL)
- MATCHING BASE PLATE (OPTIONAL)
- INLINE FLAME ARRESTOR (OPTIONAL)

ELEVATION

NOT TO SCALE

APPROXIMATE WEIGHT = 6,000 LBS



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Q100 TYPICAL DETAILS		Q100
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REV.#:		△



QUESTOR Q100 INCINERATOR

TECHNICAL SPECIFICATIONS

Design Basis

Maximum throughput: 100,000 scf/d of methane equivalent gas
Fuel requirement: (varies depending upon waste gas composition)
Design operating temperature: 600 to 1200 °C

Questor Q100 Incinerator Detail

Total height: 25 ½ feet (7.7 meters)
Total weight: 6,000 lbs (2,120 kg)
Foot print: 2 feet – 7 ¾ inch Dia (0.86 m Dia)
Number of sections: 3 – Stack and air induction
Stack material: A36 - Refractory lined
Stack OD: 24.0 inches (61 cm)
Stack Refractory I.D.: 17.5 inches (44.5 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: 24 inches (61 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 – 10 inches OD
Flanges: A105 BWRP
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 Q100 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: Atmospheric
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 Q100 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 17" 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' 7 ¾" plate with matching 7/8" bolt holes
Guy Wires	3 - 3/8" x 100' guy wires