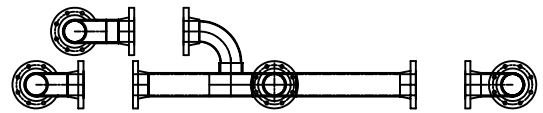


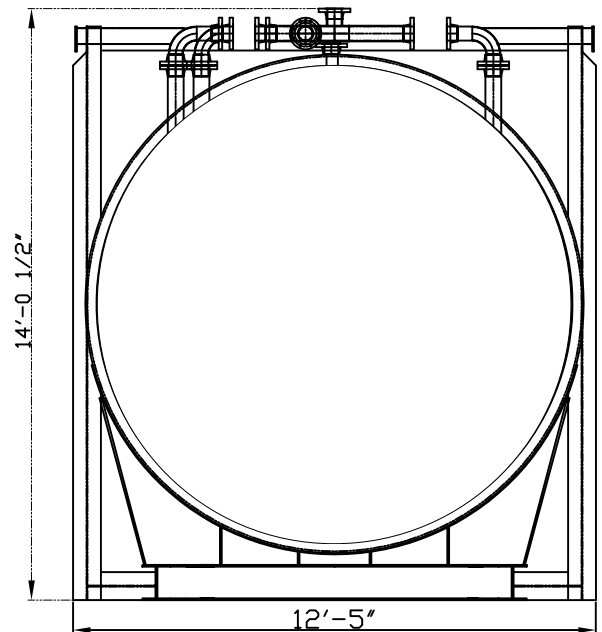
ESTIMATED WEIGHT
45000LB'S

Q5000 FEATURES

- Capacity Rated At 5 MMSCFD of Methane Equivalent BTU Gas
- Portable Unit c/w Lifting Lugs
- Total Weight Approximately 47000lb's
- 3 Guy Wires (Must be Anchored)
- 12 V Deep Cycle Gel Battery
- 20 W Solar Panel
- Heavy Duty 'L' Skid Mounted
- 4' 150 ANSI Inlet Flange
- Triple Manifold (Increased Turndown Capability)
- Stack Top Sample Port
- Stack Top Temperature Readout
- 3 Pilot Ignition Systems
- Pressure Regulated Pilot Gas System
- Continious Sparking Ignition (2 Second Intervals)
- Remote Control Of Ignition System
- 446 SS Thermowell with Type K Thermocouple
- Ladder Access To Stack Top w/ Fall Arrest System
- 5-1/2' Thick Ceramic Refractory Lined



INLET MANIFOLD
FRONT VIEW



PLAN VIEW



QUESTOR TECHNOLOGY INC.

510, 100 - 4th AVE. SW
CALGARY, ALBERTA, T2P 3K7

CUSTOMER:

CLIENT:

LOCATION:

Q5000 SKIDDED INCINERATOR

DWN. BY: J.VESSO

DATE: 23/02/05

APP. BY: D.MOTYKA

DATE: 23/02/05

DWG.#

REV.#:



QUESTOR Q5000 INCINERATOR

TECHNICAL SPECIFICATIONS

Design Basis

Maximum throughput:	5,000,000 scf/d of methane equivalent gas
Fuel requirement:	(varies depending upon waste gas composition)
Design operating temperature:	600 to 1200 °C

Questor Q5000 Incinerator Detail

Foot print:	12 feet, 6 inches W x 12 feet, 6 inches D (3.81 m x 3.81 m)
Number of sections:	1 – Stack and air induction combined
Stack material:	¼ inch plate A36 - Refractory lined
Stack OD:	144 inches (365.8 cm)
Stack Refractory I.D.:	132 inches (335.3 cm)
Stack length:	24 feet (7.3 m)
Stack wall thickness:	0.25 inches (6.4 mm)
Air induction OD:	144 inches (365.8 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	12 feet, 6 inches W x 12 feet, 6 inches D x 10 inches (3.81 m x 3.81 m)
Skid Side	40 feet, 5 7/8 inches H x 6 feet, 10 ¼ inches W x 10 1/8" 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 Modules
Thickness:	5 ½" inches
Manufacturer:	ThermalCeramics
Maximum working temperature:	2500 °F or 1371 °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 Q5000 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



QUESTOR Q5000 INCINERATOR

TECHNICAL SPECIFICATIONS

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