

## Quad O Enclosed Combustor (Q-DEC)



## Description

AEREON has taken on some of its customers' largest challenges in waste gas emissions, especially in the shale plays and AEREON's Q-DEC product is the answer to one of those challenges. Q-DEC was designed to meet Quad O emissions requirements with an unprecedented "zero utility" smokeless burner. The Q-DEC uses a proprietary flame-spreading burner to ensure excellent air-gas mixing, thereby improving combustion, reducing emissions, and eliminating smoke. Designed to handle the highest seismic loads and 90 mph wind speed, Q-DEC is constructed entirely of stainless steel to eliminate corrosion and extend its product life. The peace of mind from solid construction, timely delivery, and regulation-conformity are just added benefits of this revolutionary product.

## Advantages

- Standardized parts are stocked, allowing rapid delivery of consistent products.
- Totally smokeless combustion with as little as 0.5 oz./in<sup>2</sup> of waste gas pressure.
- No electrical, steam, or gas utilities are required for smokeless operation.
- All-stainless construction withstands the heat and elements without maintenance.
- Ignition system includes robust continuous-flame pilot for EPA compliance.
- Optional solar-powered ignition system and two-week battery backup support the most remote installations.
- Various optional equipment makes Q-DEC meet different codes and company standards.

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## Principal Applications

- Well pad and tank farm emissions control
- Heavy, low-pressure gases
- Combustion backup for vapor recovery
- Compressor stations

QDEC Product Line				
Model No.	Diameter (inches)	Height (feet)	Heat Release (MBTU/hr.)	Flow Rate* (MSCFD)
QDEC-1810	18	10	415	4.5
QDEC-2410	24	10	738	8.1
QDEC-3610	36	10	1700	18.5
QDEC-3620	36	20	4100	44.7
*Based on LHV of 2200 BTU/scf				

## Specifications

### MATERIALS:

- Combustion Chamber: 304 Stainless Steel
- Baseplate: 304 Stainless Steel
- Pilot: 310/316 Stainless Steel
- Upper Burner: 310 Stainless Steel
- Burner Piping: 304 Stainless Steel
- Personnel Shield: Painted Carbon Steel

## Design Features

- High alloy material construction in the heat affected zones
- Smokeless Turndown of 10:1
- Continuously-monitored flame pilot
- Quad O Compliance
- Remote Installation
- Automatic Shutdown and Over-fire Protection (optional)