

## Thermal Oxidizer System (Ultra-EFX Series)

### GENERAL:

- Typically used to provide destruction of a wide variety of waste gases and toxic chemicals with high or very low heating values
- Provides ground based, completely hidden combustion process
- Provides smokeless combustion
- The combination of residence time, elevated combustion temperatures, and a turbulent mixing zone create greater combustion efficiency
- Temperature controlled to ensure the highest destruction efficiency throughout the waste gas flow range

### SELECTION CRITERIA / ADVANTAGES

- High destruction efficiency required
- Most fuel-efficient combustion system type
- Minimal noise signature
- No radiant heat allows installation next to equipment and personnel
- Sampling ports allow for in situ emissions testing
- Stable and reliable combustion

### PRINCIPLE APPLICATIONS

- Upstream oil & gas production
- Midstream oil & gas
- Petroleum refining
- Chemical processing industry (CPI)
- Wide range of industrial manufacturing processes in diverse industries

### DESIGN FEATURES

- Vertical or horizontal design configuration options
- Flashback protection with a flame or detonation arrestor or liquid seal drum
- Carbon steel combustion chamber with high temperature refractory lining
- Blower / fan provides combustion air delivery system
- Dedicated waste gas injection burners
- Dedicated assist gas process burners
- 99 – 99.99% destruction efficiency

## SPECIFICATIONS

### DIMENSIONS:

- Standard length: 20' - 60' [6.1 m – 18.3 m +]
- Diameter: 24" - 144" + [610 - 3658 mm +]

### STANDARD MATERIALS:

- Combustion chamber: refractory lined carbon steel
- Burners: stainless steel
- Burner Manifold: carbon steel

