

VCU - Vapor Combustion Unit (UltraVCU Series)

GENERAL:

- Found predominantly in a distribution terminal – truck, rail, or marine loading
- Provides ground based, completely hidden combustion process
- Provides smokeless combustion of heavy waste gas vapors
- The combination of residence time, elevated combustion temperatures, and a turbulent mixing zone create greater combustion efficiency
- Multiple levels of safety protect against a potential flashback

SELECTION CRITERIA / ADVANTAGES

- Smokeless flow rates of up to 100% of total waste gas flow
- 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
- Inerting or enrichment gas used to maintain a waste gas mixture outside of the explosive limits prior to combustion

PRINCIPLE APPLICATIONS

- Midstream oil & gas
- Petroleum refining
- Chemical processing industry (CPI)
- Terminals – marine, rail, and truck

DESIGN FEATURES

- 99% + destruction efficiency
- Encore ContraFlash anti-flashback waste gas burners provide safe, efficient and reliable combustion
- Encore Energen pilots provide reliable and instantaneous ignition
- Secondary flashback protection with either a detonation arrestor or liquid seal drum
- Dock safety skid options available
- Carbon steel combustion chamber with high temperature refractory lining
- Designed to accept a wide range of waste gas pressures
- Natural draft and blower assist combustion air delivery
- Designed to meet U.S. Coast Guard safety design criteria



SPECIFICATIONS

DIMENSIONS:

- Standard length: 20' - 60' [6.1 m – 18.3 m +]
- Diameter: 24" - 156" [610 - 3962 mm +]

STANDARD MATERIALS:

- Combustion chamber: refractory lined carbon steel
- Burners: 316SS or 310SS
- Burner Manifold: carbon steel

