ENCORE COMBUSTION

Steam Assisted Flares (EnviroMist Series)

GENERAL:

- Provides smokeless combustion of heavy waste gas vapors
- Steam is injected into the combustion zone to induce atmospheric air
- Upper ring and / or lower induction tubes used to deliver steam
- High velocity steam injection creates a turbulent mixing zone for greater combustion efficiency

SELECTION CRITERIA / ADVANTAGES

- Smokeless flow rates of up to 100% of total waste gas flow
- Steam is a readily available utility
- Center steam sparger used to minimize flame burn-back thus increasing tip longevity
- Stable and reliable combustion

PRINCIPLE APPLICATIONS

- Petroleum refining
- Chemical processing industry (CPI)

DESIGN FEATURES

- Flame retention devices(s) ensure stable combustion
- Designed to accept a wide range of waste gas pressures
- High temperature rated materials in the heat affected area
- Includes velocity type purge seal to prevent flashback and minimize operating expense

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SPECIFICATIONS

DIMENSIONS:

- Standard length: 10’-0” [3048 mm]
- Diameter: 4” - 84” [102 - 2134 mm]

STANDARD MATERIALS:

- Heat affected zone: stainless or high nickel alloy (as per application)
- Non-heat affected zone: carbon steel
- Steam ring: 321SS
- Steam sparger: 321SS
- Velocity Seal: 304SS