

## MACH-1 Sonic Flares



## Description

MACH-1 is the speed of sound. AEREON's cutting edge MACH-1 sonic flaring technology operates at this velocity in order to combust waste gas smokeless. Sonic flares utilize multi-point exit nozzles to dispose of high pressure waste gas streams.

The MACH-1 Sonic Flare Tip utilizes the pressure of the waste stream (creating sonic exit velocities) to create turbulent mixing and induce excess quantities of air for more complete combustion. Sonic flare tips emit reduced levels of radiation and can be placed at lower, less visible elevations. This advanced flaring technology is excellent for applications with high pressure waste gases and high capacity smokeless requirements.

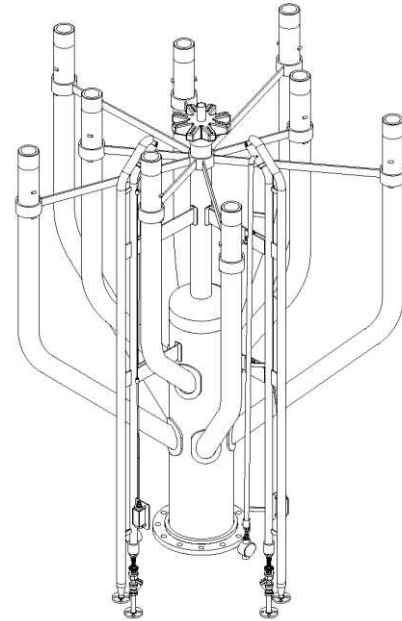
## Advantages

- High smokeless capacity due to high velocity air induction and multi-point design
- Long service life under normal flow conditions
- Lower radiant heat
- Effective cost solution for offshore platform use reduces size and expense of flare boom
- Able to burn entrained liquids without smoke formation or liquid droplet fallout

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**Principal Applications**

- Offshore production
- Pipeline transportation
- Petrochemical production
- Natural gas compression and production
- High pressure waste gas
- Steam or air assist is undesirable or unavailable



**Specifications**

**DIMENSIONS**

Length: 10' - 0" (3m)  
 Diameter: 4" - 84" (0.1-2.13m)

**MATERIALS**

Upper Section:	304, 316, 310 SS	Incoloy 800H
Arm Material:	304, 316, 310 SS	Incoloy 800H
Lower Section:	Carbon Steel	

**Design Features**

- Flow rates up to sonic velocity
- Flame stabilization from center spider burner
- Multiple arm design
- Single point ignition source
- Wide range of diameters
- High alloy construction in the heat affected zone