

ADVANTAGES

- High smokeless rates due to superior mixing
- Capable of burning heavier hydrocarbons smokelessly
- Extended service life
- Lower operating costs at a given smokeless rate
- Lower radiant heat at a given capacity
- Stable, reliable combustion
- Wide range of flow capacities
- Less complicated control scheme

GENERAL DESCRIPTION

Air assist flares smokelessly dispose of heavier waste gases which have greater tendency to smoke. Air Assist flares can be employed at sites where steam may not be available.

Air flare systems are composed of two concentric risers and one or more blowers providing supplemental combustion air. A blower forces air into an outer air annulus where the process gas passes through an inner riser and upon reaching the flare tip, these two streams intermix. This air assist has three principle effects:

- High-pressure airflow causes turbulence in the waste stream which improves mixing and therefore enhances combustion efficiency.
- Additional air is induced into the waste gas providing the oxygen necessary for augmented smokeless capacity.
- Constant airflow creates a cooling effect for extended flare tip service life.



FREESTANDING
AIR ASSIST FLARE



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PRINCIPLE APPLICATIONS

Petroleum refining
 Petroleum production
 Chemical processing
 Pipeline transportation
 Tank and barge loading facilities
 Natural gas compression and production

DESIGN FEATURES

Large air/fuel boundary to increase smokeless capacity
 Dynamic/Velocity seal to reduce purge gas expenses and prevent flashback
 High alloy construction in the heat affected zone
 One or more blowers for greater smokeless range

SPECIFICATIONS

DIMENSIONS:	Length:	6' - 0" (1.8m)
	Diameter:	4" - 84" (0.1-2.12m)
MATERIALS:	Tip Body:	304, 316, 310 SS Incolloy 800H
	Dynamic seal:	304 SS
	MODELS:	MAVP:
	SFVP:	Low Pressure Vapors
	Environ:	High Capacity

ENVIRON AIR FLARE TIP

