



# AIR ASSISTED FLARE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
PURE AND SIMPLE.®

## AF Series



AIR ASSISTED AF FLARE

### AF SERIES DESCRIPTION

Zeeco's AF series flares use technology proven to achieve smokeless flaring when neither steam nor assist gas is available or economical.

Our AF series flares utilize a low-pressure blower to inject assist air via our proprietary design, which splits the waste gas stream into several smaller streams at the exit of the flare tip. This increases the contact surface area between the waste gas and the assist air, maximizing mixing and turbulence while minimizing the amount of blower horsepower required to achieve smokeless flaring.

### BETTER DESIGN MEANS SAFER OPERATION

The waste gases from the flare header as well as the assist air from the blower are isolated from the base of the flare stack to the top of the flare tip. As a result, at no point do the two streams come in contact with each other prior to exiting the flare tip. This ensures the safe operation of your flare system. Zeeco's AF series flare systems can operate without the blower, providing safe disposal of the waste gas in the event of a power outage.

Our proprietary design and the blower's velocity virtually eliminate "flame lick" on the exterior of the flare tip and "burnback" inside the flare tip. The forced air from the blower also shortens the flame length and reduces the radiation at grade due to the highly aerated mixture of waste gases.

### WHY CHOOSE ZEECO?

Zeeco is the leading designer of combustion equipment in the global market today in part because we have produced superior air assisted flare systems around the world for more than 30 years. Our philosophy of providing customers with superior quality, on-time shipments and competitive pricing is the cornerstone of our success. Let us put our experience to work for you. Call or email us today for more information on Zeeco's full line of flare products and replacement components for your new or existing flare system(s).



BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

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## APPLICATIONS

- ZEECO® AF series flares are perfect for refining, LNG, production, steel industries, petrochemical, offshore platforms, pulp and paper plants, pharmaceuticals and food processing plants.
- Our AF series flares are the preferred choice for industries that require smokeless flaring when neither steam nor assist gas is desired, available or cost effective.
- AF series flares are the best option for harsh conditions such as arctic environments where steam could freeze or desert environments where water is scarce.
- ZEECO AF series flare tips make sense as a replacement for other manufacturers' flare tips.

## ADVANTAGES

- Very low operating cost for smokeless operation
- High stability, low fuel consumption pilots are standard with AF flare tips
- 98.5% or higher hydrocarbon destruction efficiency
- Superior materials and construction
- Lower blower horsepower requirements than competing designs

## FEATURES

- Sizes ranging from 2 inch (50 mm) to 120 inch (3050 mm)
- Longer flare tip life due to continual cooling by forced air flow
- Lower radiation level at grade due to a highly aerated flame
- Lower noise than similar size steam assisted flares
- High stability pilots (tested to 150 mph [241 Km/hr] wind speed)
- Critical parts supplied as investment castings
- 310 stainless steel in high heat areas



AIR ASSISTED AF FLARE BLOWERS



AIR ASSISTED AF FLARE



AIR ASSISTED AF FLARE

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY:



CERTIFIED  
NBBI



CERTIFIED  
ASME



CERTIFIED  
ASME



REGISTERED  
ISO 9001: 2008

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