## Gas Horn Igniter for Corner-Fired Boiler Applications

Babcock & Wilcox (B&W) is the exclusive source in the United States of Fossil Power Systems (FPS®) gas horn igniter equipment for corner-fired boilers.



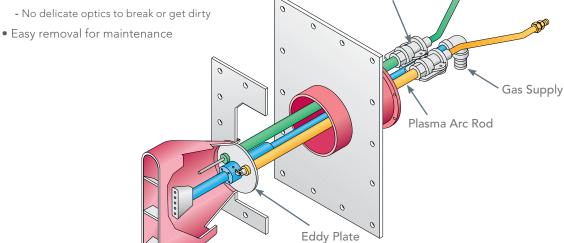
The integrated electrical-mechanical components of the FPS gas horn igniter are designed to optimize performance in these key areas:

- Ignition reliability
- Combustion
- Flame stability
- Flame monitoring

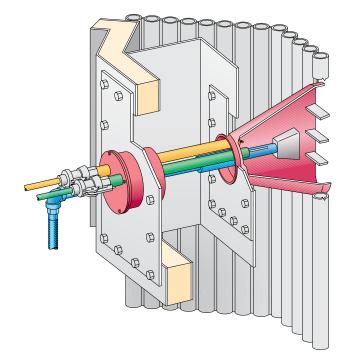
## **Features**

- 20 MBtu per hour heat input
- Simple plug-in design
- Existing air supply is typically sufficient
- Three-stage ignition for a stable, self-sustaining
- Plasma arc ignition for reliable light-off
- SunSpot flame detector with:
  - Discrete flame detection
  - No field calibration

- No periodic maintenance requirement



SunSpot Flame Detector





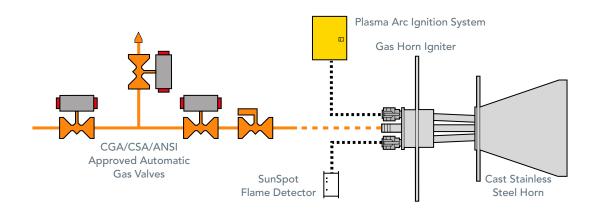
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## Igniter Peripherals

Each FPS gas horn igniter is supplied with the following environmentally sealed peripheral components:

- PAI power pack in NEMA 4 enclosure
- SunSpot flame detector electronic module
- Gas hose with swivel connector

- (2) brass-braided flex conduit assemblies for igniter electrical connections (flame detector and spark)
- Plasma arc ignition
  - Input: 120vac, 50/60hz, 100 VA
  - Output: 8 joule at 3 arc/sec
- Igniter mounting plate with gasket



Typical Natural Gas Fuel Schematic

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