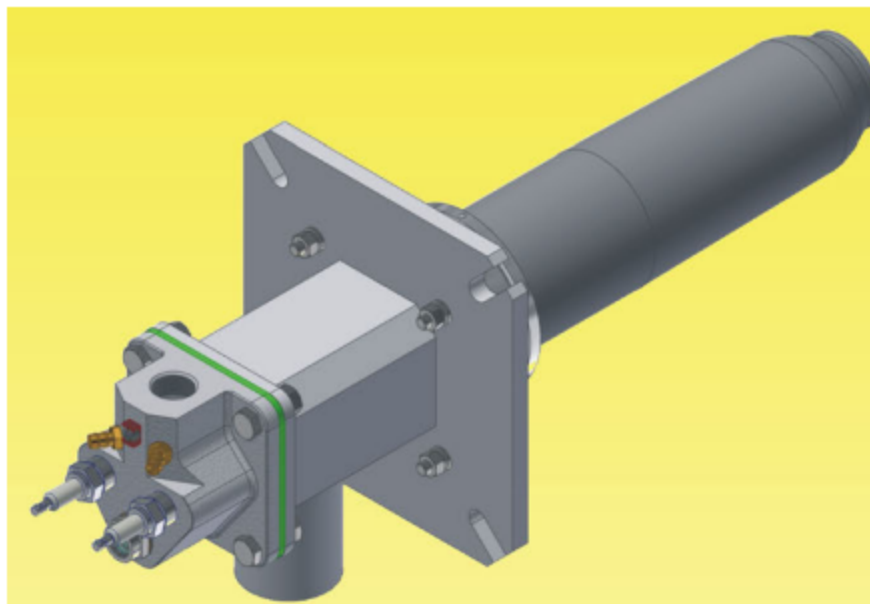




A- BF
Series Glow Flame



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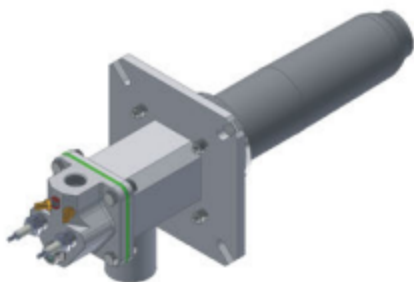
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A-BF Series Glow Flame

High radiation ability, oxidation flame, high brightness

Features

Industrial furnaces for high temperature heating (above 900 °C) and melting applications mostly use gaseous fuels, such as natural gas. When ambient air (especially preheated air) is used as an oxidant, the gaseous flame is usually blue and has a very low luminosity (emissivity), thus reducing the heat exchange between the flame and the material in the furnace. In contrast, in many cases, a glowing oil flame can be produced, which can reduce fuel consumption by up to 25% and reduce exhaust gas temperature because of its strong thermal radiation performance. Therefore it produces a bright flame (called glow flame) with high radiation ability when gaseous fuel is burned at high temperature, which has important technical and economic value. A-BF glow flame burner uses unique patented technology to achieve high thermal emissivity, high brightness reduction flame (or oxidation flame):



1. Onion stratified flame combustion technology.
2. High performance aerodynamic Flame Stabilization Technology.
3. Combined combustion technology of power combustion and diffusion combustion.

Applications

- Ceramics Industrial Furnace ● Bell Furnace ● Tempering Furnace ● Crucible Melting Furnace
- Heat Treatment Furnace ● Walking Quenching Furnace ● Roller Hearth Low Temperature Tempering Furnace

Product Description

- | | |
|--|--|
| ● Air shell: Q235 | ● Maximum preheating air temperature: 350C |
| ● Material material for air inlet pipe: Q235 | ● Power: 40~400KW |
| ● Applied maximum furnace temperature: 250° C | ● Air inlet pressure: 20mbar |
| ● Combustion chamber alloy tube, Silicon carbide | ● Gas inlet pressure: 20mbar |
| ● Fire pipe material: SUS 304 | ● Fuel: NG/LPG |
| ● Combustion head: SUS 321 | ● Adjustment ratio: 10: 1 |
| ● Fixed flange: Q235 | |

Ignition and Flame Monitoring

- The ignition of the burner can be realized by the ignition electrode (Model EN or WAND).
- Flame detection, electrode detection.