

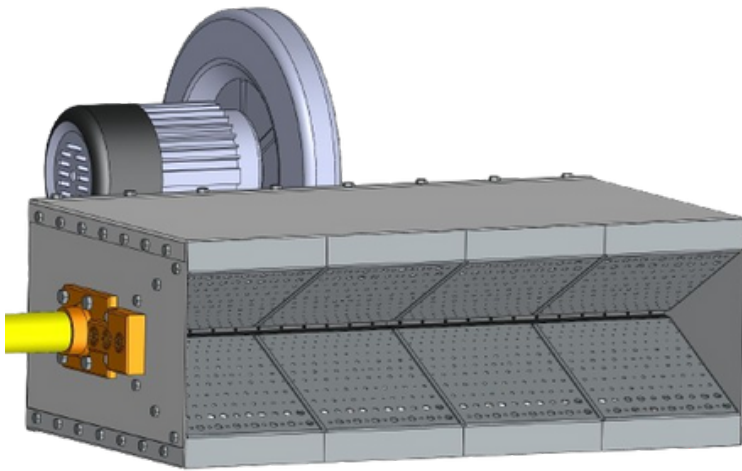
FlexFire

FBD Series Duct Burners

Technical Catalogue

Edition- 1.01

Product Description



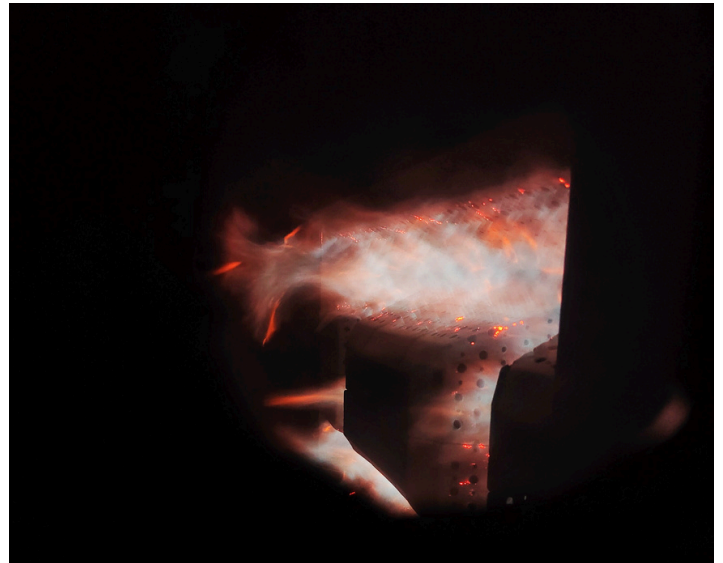
Helios Flexfire series FBD burners are linear burners specifically designed for hot air generation.

These burners are used in multiple applications including paint baking ovens, dryers, air handling units, incineration systems and other low temperature applications.

FlexFire Burners feature a modular construction, allowing rapid assembly from straight and T-sections, providing exceptional adaptability for customized setups.

The precise mixing of air and fuel within the burner enhances both emission control and efficiency. Additionally, a built-in combustion air blower can be effortlessly attached to the rear of the burner's stainless steel housing, ensuring consistent performance across a range of duct velocities without requiring a profile plate installation.

For burner mounting, both In-duct and wall mounted configurations can be provided. For In-duct configuration a modular slide in design is available, for wall mounted configuration flanges are provided for direct mounting of the burner.



Gas flow control components are fitted in offer versatility, with multiple options. To further customize, a gas control port valve is available with modulating motor and linkage options. Air and gas pressure switches are available for pressure monitoring.

For ignition, spark ignited pilot line is available. Ionization sensor and UV flame detectors are available for flame supervision.

Burner Specifications

• Fresh Process Air

Combustion Air: O2- 21%, Temp.- 20 deg. C Fuel: Natural Gas Process Air: fresh air 21% O2	
Max. Rated Capacity per 300mm section	280 KW
Max. Flame length	0.3 - 1m
Turndown	30:1
Natural Gas pressure	25-40 mbar
Combustion Air Pressure	20 mbar
Max air flow per 300mm section	450 m ³ /hr

• Recirculating Process Air

Burner Specifications Combustion Air: O2- 21%, Temp.- 20 deg. C Fuel: Natural Gas Process Air: Recirculating air (low O2)	
Max. Rated Capacity per 300mm section	250 KW
Max. Flame length	0.5-1.5m
Turndown	30:1
Natural Gas pressure	25-40 mbar
Combustion Air Pressure	20 mbar
Max air flow per 300mm section	450 m ³ /hr

*Stated data is indicative, and can vary according to air temperature, air humidity, altitude, fuel type & quality.

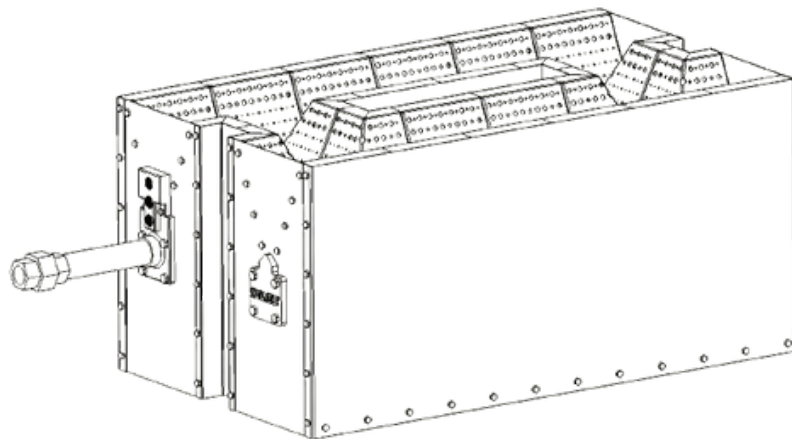
Applications

HELIOS FlexFire burners can be used in a range of applications.

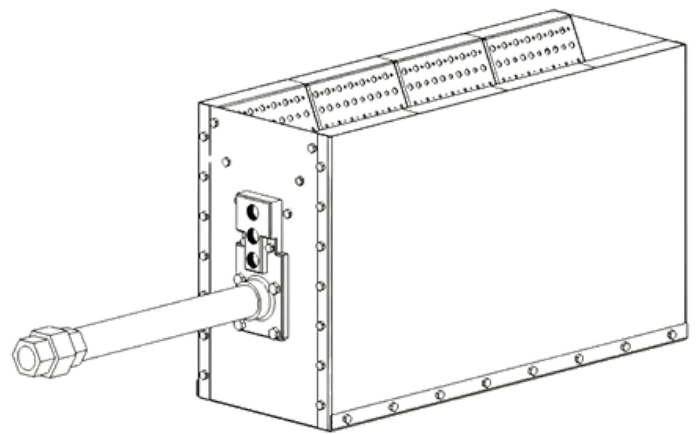
The FDB series burners are perfect for direct air heating applications. Hot air generation by the burner fulfills the temperature requirement of the system and there is no variation in the the process air flow.

FDB Series burners are also used in variety of drying applications including but not limited to food, ceramics, textile, paper, pharamceutical's, in these applications both fresh and recirculating air is used.

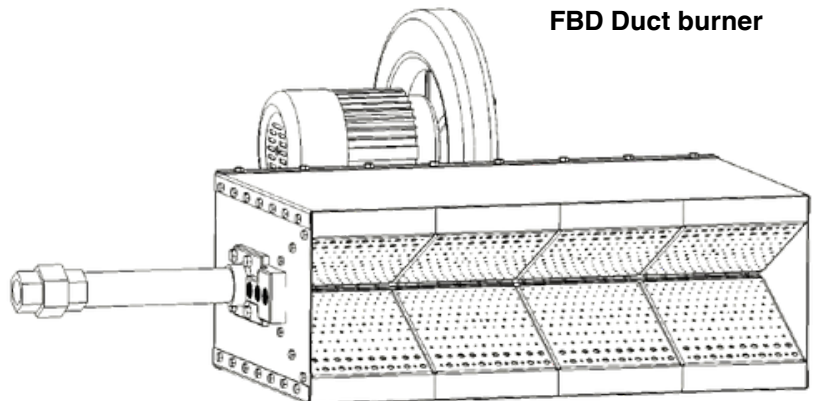
FDB series burners are also available in wall mounted configuration for HVAC systems, Greenhouses to provide supplementary heating. It can also be used in low temprature ovens with air recirculation.



H-Type FBD Duct burner



FBD Duct burner



FBD Duct burner with integrated blower

Manufactured and Marketed by
 Blaze Combustion Systems
 Plot-113, Patparganj Industrial Area
 Delhi-110092, India

For More Information

To Learn more about our products and offerings please visit
blazecombustionsystems.com
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