



NTFB offers customized combustion solutions for mid to large-size single and multiple burner systems for watertube boiler and fired furnace projects. Our burners are specifically designed as part of a system, integrating the furnace configuration, fuels and unique project characteristics, to ensure stability, low maintenance, and optimum combustion.

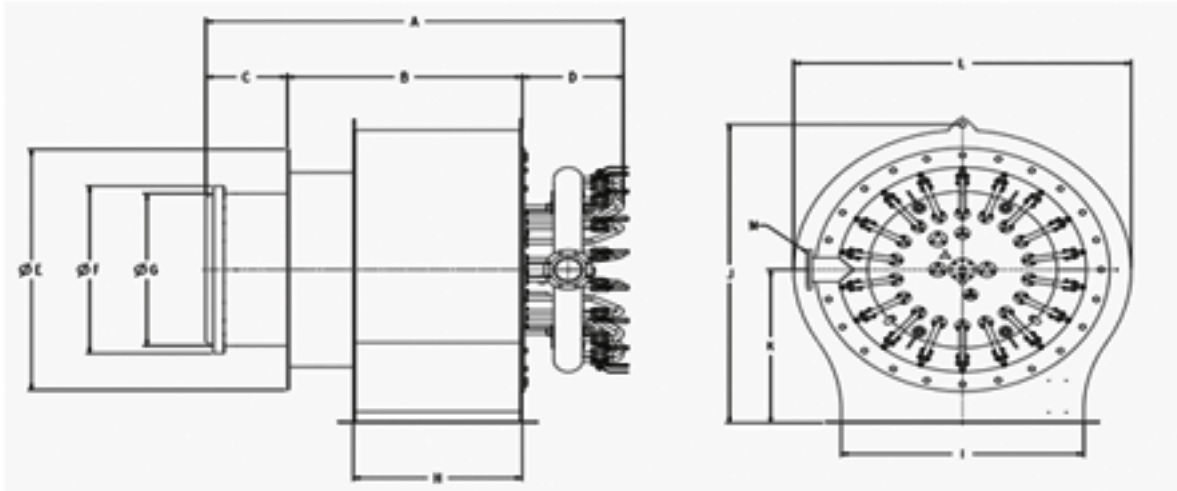


Stable and reliable designs

- 60K to 225K lbs/hr output
- Highly field adjustable unique spud engineering design for fast startup
- < 15ppm NOx on standard burner designs with FGR
- Low excess air
- Up to 12:1 on natural gas
- Dual and Triple fuel designs
- Meets all NPFA 85 requirements

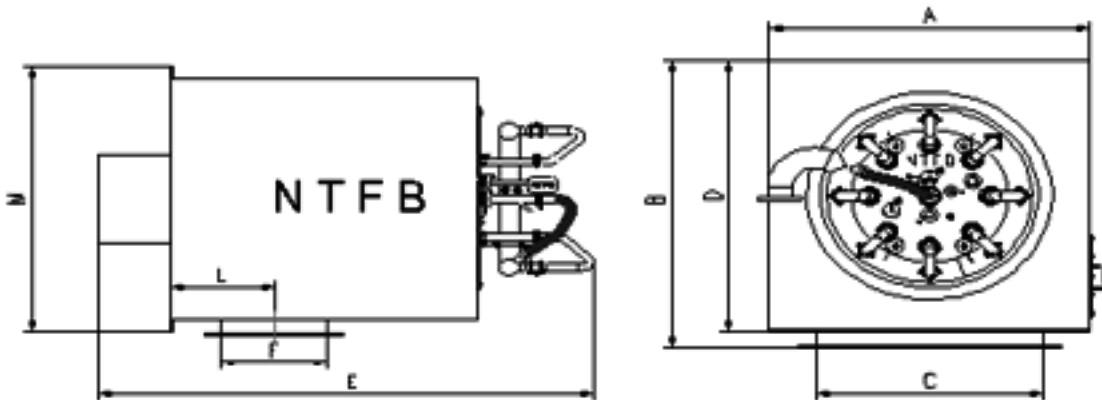
NTFB focuses on industrial package boiler burners for both retrofit and new boilers specifications. Call NTFB to discuss other application needs. NTFB – listening to exactly what you need.

GS/OGM (A01~A05)
Burner Exterior Dimensions



Burner Frame #	A	B	D	J	L
A01 (33kpph)	56	22	16	52	39
A01 (44kpph)	58	24	16	60	46
A02 (88kpph)	93	56	19	85	71
A03 (110kpph)	92	53	20	80	77
A03 (120kpph)	92	53	20	80	77
A03 (143kpph)	92	53	20	80	77
A04 (175kpph)	102	62	22	87	81
A05 (265kpph)	114	75	22	113	106

(Unit: in)



Burner Frame Number	A	B	C	D	E	F	L	M
A02	79	85	56	79	119	37	45	83
A03	94	110	67	94	130	55	51	102



Beijing Aerospace University.
Two 14MW Ultra Low NOx burner / 13ppm with FGR

Single or multiple-fuel burners for natural gas, refinery gas, LPG, waste gases, and light to heavy oil.

Efficient, energy saving designs resulting in minimum excess air requirements for maximum fuel savings



40 Tons



100% reliable ignition through NTFB's unique 14,000 Volt ignition system.

Flame stability at all loads, due to the burner's inner core low air velocity design, coupled with the burner spinner's unique variable pitch inclining arc blade design

65 Tons



Low NO_x emissions down to single digit levels, combined with SCR technology for levels as low as 3 to 5 ppm, if required.

Field adjustable gas spud design for fast startup. Each spud element can be individually adjusted, and possibly inspected and removed, while the burner is running.

Option fuel changeover between gas and oil without shutdown



- Multi-fuel Systems
- Multi-burner Applications
- Environmentally Compliant - Low NO_x, CO, VOC and PM
- High Turndown Ratio
- S.S. Burner Throats for Low Maintenance and High Reliability



At NTFB, our primary commitment is to safety and quality. Our fuel piping assemblies, controls, and burner management comply with standards NFPA 85, AWS, ASME B31.1, and FM. ASME B31.3, CSA B149.3, CE, and TUV are available on request.

100 Tons



- Fine-tuning through Online Adjustments
- High Flame Stability
- Oil Atomizer Retract Mechanisms
- State of the Art Ignition Systems, Fixed or Retractable



Control Systems

NTFB control systems are custom engineered for each application to meet your specific requirements. We offer Allen-Bradley, SIEMENS, Fireye and Honeywell hardware with a user friendly interface for simple, safe, and reliable operation, all per NFPA 85 recommendations.

Features

- Touch screen interface
- Allen-Bradley, SIEMENS PLC, or customer specific
- Solid state, loop controller, PLC, and DCS platforms
- Burner Management System (BMS)
- Combustion Control System (CCS)
- Factory Acceptance Test (FAT)
- NEMA 4 enclosures, with NEMA 4X or explosion proof options



Retracting Mechanism

This is a pneumatically operated mechanism to retract the oil burner gun automatically when the oil burner gun is not in operation, or automatically retracted during power shut down.



PIPING MODULE

NTFB piping modules, for single or multiple burners are pre-assembled and tailored to each burner system arrangement.

- Automatic safety valves shut off in under 1 second
- Pressure tested
- Multi-fuel piping on a single module
- Pneumatic or electric components
- Optional Safety Integrity Level (SIL) and moisture removal systems

Selective Catalytic Reduction (SCR)

Adding SCR to an NTFB burner system can reduce NOx emissions by up to 95%, while maintaining the efficiency and operational flexibility of the boiler.

Advantages of SCR

With SCR, there are no required changes to the burner equipment, which means that NOx levels can be lowered while maintaining system efficiency and flame stability. Similar NOx levels could alternatively be achieved by other "ultra-low NOx burners," but these systems can only reach these low NOx levels by drastically sacrificing efficiency and stability. For this reason, SCR is the most reliable, easy to use, efficient and economical method for reducing NOx emissions, and combining SCR with safe, stable, efficient NTFB low NOx burner technology is NTFB's preferred method for achieving single digit NOx levels.

- Single digit NOx levels
- Reliable
- Easy to use
- Maintains boiler efficiency
- Maintains turndown ratio
- Maintains flame stability
- Economical
- No changes required to the burner and boiler system

Your partner on burner projects, NTFB.

CONTACT US

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