

PACKAGED BURNERS FOR FIRETUBE BOILERS

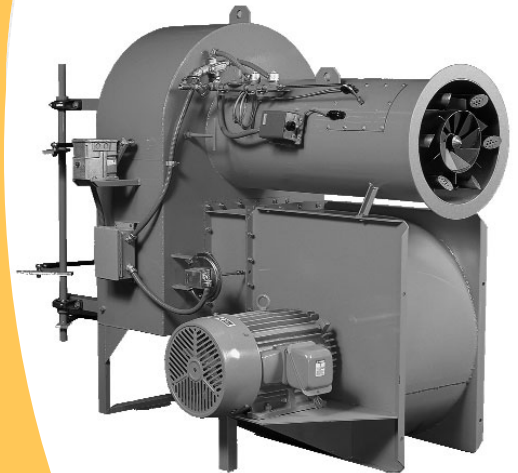
PROVEN PERFORMANCE. STABLE OPERATION. With its unique fuel-staging technique, the Forney low-NO_x burner reduces NO_x emissions to less than 30 ppm with no flue gas recirculation (20 ppm with only minimum amounts of flue gas recirculation). The packaged burner accomplishes these significant reductions while maintaining stable combustion and limiting other air pollutant emissions to extremely low levels throughout the burner turndown range.

In applications where off-the-shelf firetube burners won't work, custom designed Forney burners will perform. Forney combustion engineers draw on their experience designing burners for industrial, utility and petrochemical applications to ensure every burner fits and meets its performance guarantees.

Efficient operation and reduced operating costs make the packaged burner your choice for both new and retrofit boiler installations. In hundreds of installations, this burner performs superbly across a wide spectrum of operating conditions. Its unique flame-shaping capability permits installation in many existing boilers.

Packaged burners for firetube boilers are available for capacities ranging from 60 to 1500 HP. Units are available as a burner only or as a package unit with fuel trains, safety control systems, and firing-rate controls. Burners are designed and built per UL, IRI, FM, CSA, or other requirements.

- **REDUCED INSTALLATION COST**– The precast refractory throat is simple to install and requires no maintenance.
- **EFFICIENT OPERATION**– Up to 15:1 gas, 8:1 oil turndown is the best in the industry. Provides the best performance of any burner at high and low load.
- **IMPROVED PERFORMANCE**– Unique technology permits achievement of the most stringent emissions limits with only the smallest amount of FGR.
- **PERFECT FIT FOR RETROFIT REQUIREMENTS**– Several features are standard that allow flame shaping, eliminating flame impingement problems. Fits into most existing windbox assemblies.
- **LOWEST OPERATING COST**– Efficient air mixing results in smaller combustion air requirements. Its sophisticated oil gun design uses less atomizing media than competitive designs.
- **SIMPLIFIED MAINTENANCE**– Uses commonly available components, making it easy for the user to service.



BURNERS



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Specifications

Burner Model	Input MBtu/hr	Boiler HP	FD Fan Motor HP	D	H	L	W
60-N3	2.0 - 2.5	60	1.5	6	24 1/4	37	12
80-N3	2.6 - 3.4	80	1.5	8	27 3/4	42	14
100-N3	3.5 - 4.2	100	1.5	8	27 3/4	42	14
125-N3	4.3 - 5.3	125	3	8	29 13/16	42	14
150-N3	5.4 - 6.3	150	3	10	34 5/16	48 1/2	20
200-N3	6.4 - 8.4	200	5	12	35 3/8	48 1/2	20
250-N3	8.5 - 10.5	250	10	12	37 7/16	48 1/2	20
300-N3	10.6 - 12.6	300	10	12	37 7/16	51	24
350-N3	12.7 - 14.7	350	10	14	39 15/16	51	24
400-N3	14.8 - 16.8	400	10	14	39 15/16	55	28
500-N3	16.9 - 21.0	500	15	18	41 7/16	55	28
600-N3	21.1 - 25.2	600	25	18	47 7/16	65	34
800-N3	25.3 - 33.6	800	25	18	47 7/16	65	34
900-N3	33.7 - 37.7	900	25	20	49 7/16	67	42
1000-N3	37.8 - 41.9	1000	40	22	52 3/16	60	44
1200-N3	42.0 - 50.3	1200	50	22	65 1/4	62	44
1500-N3	50.4 - 62.9	1500	60	24	66 1/4	64	46

NOTES:

1. Above is for 30 ppm NO_x on Natural Gas.
2. Information above is for guideline.
3. D is the throat diameter. All dimensions are in inches.

