

PACKAGED BURNERS FOR WATERTUBE 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 Forney low NO_x burner accomplished these significant reductions while maintaining stable combustion and limiting other air pollutant emissions to extremely low levels throughout the entire burner turndown range. Forney packaged burners are designed for watertube boilers in single and multiburner applications.

Efficient operation and reduced operating cost make Forney's burners 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.

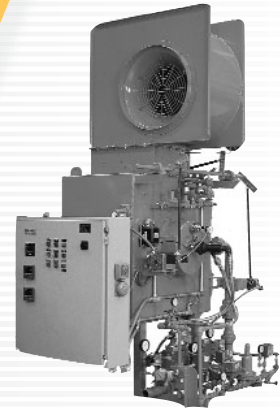
Register-type burners for multiburner industrial and utility boilers are available in capacities up to 300 million Btu/hr per burner. They can be used as multiple burners operating as one or as individual burners operating in accordance with NFPA 85. Controls incorporate state-of-the-art PLC, DCS, or microprocessor-based burner systems and can be integrated into a common system, providing operators with a single window into the boiler operation.

All units are designed and manufactured per UL, IRI, and NFPA requirements. Typically, the package includes a forced-draft fan, fuel trains, and a burner management system. Various control systems can be provided including single point positioning control and fully cross-limited control with oxygen compensation.

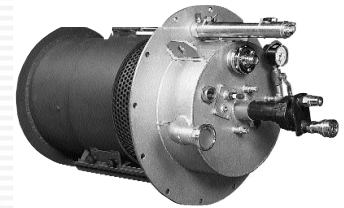
- **REDUCED INSTALLATION COST** – The precast refractory throat is simple to install and requires no maintenance.
- **IMPROVED PERFORMANCE** – Unique technology permits achievement of the most stringent emissions limits with only the smallest amount of FGR.
- **SIMPLIFIED MAINTENANCE** – Uses commonly available components, making it easy for the user to service.
- **LOW EXCESS AIR REQUIREMENTS** – 10% or less firing gas and 15% or less firing oil
- **LOWEST OPERATING COST** – Efficient air mixing results in smaller combustion air requirements. Its sophisticated oil gun design uses less atomizing media than competitive designs.
- **EFFICIENT OPERATION** – Up to 15:1 turndown is the best in the industry. Provides the best performance of any burner at high and low load.
- **PERFECT FIT FOR RETROFIT REQUIREMENTS** – Several standard features allow flame shaping, eliminating flame impingement problems. Fits into most existing windboxes.



BURNERS



Typical burner for single burner applications



Typical burner for multiburner applications



Re-powering your world





PACKAGED BURNERS FOR WATERTUBE BOILERS

SPECIFICATIONS - TYPICAL DATA

Burner Model	Nominal Heat Input (MBtu/hr)	Burner Throat OD (Inches)	FD Fan Motor (HP)	Windbox Dimensions (Inches)		
				Height	Width	Depth
10WT14	8.0 - 13.0	25.25	5	54.5	48.5	32
15WT18	13.1 - 20.0	31.25	10	54.5	48.5	32
20WT18	20.1 - 26.0	31.25	15	54.5	48.5	32
25WT20	26.1 - 32.0	35	20	54.5	48.5	32
30WT22	32.1 - 38.5	42	20	62.5	56.5	38
40WT24	38.6 - 51.3	43	30	62.5	56.5	38
50WT26	51.4 - 64.1	44	50	62.5	56.5	38
60WT28	64.2 - 77.0	47	60	72.5	66.5	46
70WT28	77.1 - 89.8	47	75	72.5	66.5	46
80WT30	89.9 - 103	50	100	72.5	66.5	46
90WT32	104-116	52	125	72.5	66.5	46
100WT34	117 - 128	53	Remote	82.5	76.5	54
125WT36	129 - 160	55	Remote	82.5	76.5	54
150WT38	161 - 193	64	Remote	82.5	82.5	54
175WT40	194 - 225	68	Remote	82.5	82.5	62
200WT42	226 - 256	70	Remote	94.0	94.0	62
225WT45	257 - 289	73	Remote	106.0	106.0	62
250WT45	290 - 300	73	Remote	118.0	118.0	62

NOTES:

1. Specify fuel in model number: N=natural gas; 02=No. 2 fuel oil; 04=No.4 fuel oil; 06=No. 6 fuel oil; T= other.
2. Burner sizing is based on 80° F combustion air and 30 ppm (dry) NO_x, reference 3% O₂ on natural gas.
3. FD fan selection is based on assumed furnace pressure. For exact and final fan motor size, consult Forney.
4. Burner size and fan size may vary for flame forming on field-erected boilers. For final selection, consult Forney.
5. Windbox dimensions are nominal; certain dimensions may vary to accomodate field conditions. If varied dimension is desired, consult Forney.
6. Oil atomization via steam, air or mechanical as required.

