

BURNHAM®

Commercial Boilers

THREE-PASS FIREBOX DESIGN

COMPACT

15 PSI STEAM,
30 OR 60 PSI
WATER

150 PSI STEAM

SOLID FUEL
FIRING



Series 4N

NATURAL DRAFT FIREBOX BOILER

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Standard Equipment:

Boiler: Three-pass boiler constructed and stamped in accordance with Section IV of the ASME Boiler and Pressure Vessel Code for 15 psi steam and 30 psi water with separate base, rear smoke outlet (top outlet available when specified), gas tight front flue cleanout door, rear observation port 63A through 345A, rear access door with observation port 397A and larger, lifting lugs 127A and larger.

Jacket: Wrap-around type, with fiberglass insulation—installed.

Steam Trim: Steam pressure gauge (3-1/2 inch 63A through 662A; 6 inch 827 and larger), gauge glass set for mounting on boiler with 63A through 345A, cast iron water column with gauge glass set and tricocks 397A and larger, and ASME relief valve(s). Trim not installed.

Water Trim: Theraltimeter (3-1/2 inch) 63A through 662A, pressure/altitude gauge (6 inch) and thermometer, (6 inch) 827 and larger, ASME relief valve(s). Trim not installed.

Additional Equipment:

Oil & Gas Fired Boiler: Burner opening in front head (base refractory or combustion equipment is not supplied by Burnham Commercial).

Solid Fuel Fired Boiler: Firedoor(s) in front head; hinged flue door, all sizes; ashpit door in base (Stoker not supplied by Burnham Commercial).

Optional Trim:

- LWCO's and Pump Controller
- Pressure Tools
- Aquastats
- Soot Blowers
- Surface and Bottom Blow Down Valves
- Stack Thermometers

4N Saves in Operation

- The furnace surrounds the flame with highly efficient waterbacked primary heat absorbing surfaces. This large combustion chamber is easy to fire and accommodates many fuels without flame impingement or other critical firing problems.
- An optional dual fired burner allows you to burn the more economical fuel or the most readily available fuel at the flip of a switch and affords you leverage in negotiating fuel prices.

4N Saves on Maintenance

- Superior design makes the 4N easy to clean and maintain—requiring no special tools, materials or skills.
- Opening the front flue door allows firetubes to be brushed out quickly, unlike the watertubes used in some boilers which can be virtually impossible to clean. Optional soot blowers make the tube cleaning cycle automatic.
- Elaborate or expensive proprietary seals are not required to re-close the doors as with some boilers.



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