

B&W

CENTRAL-STATION AND INDUSTRIAL BOILERS

A SINGLE RESPONSIBILITY

An important advantage in the selection of B&W steam-generating equipment is the ability of The Babcock & Wilcox Company to furnish completely integrated units—from raw-coal feeders or fuel-oil pumps and heaters to breechings and stacks—to meet all the variations required by industrial plant practice and backed by the undivided responsibility of a single manufacturer.

B&W CENTRAL-STATION BOILERS

High-duty central-station boilers, manufactured by B&W since 1881, are available in a wide variety of designs—either slag-tap or dry bottom. Being unrestricted as to capacity, steam characteristics, or method of firing, B&W engineers can recommend the unit that best meets individual customer requirements. High availability with low operating and maintenance costs, characterizes B&W installations in the nation's largest power plants. The upper B&W Radiant Boiler illustrated is one of two, each producing for one public utility 1,200,000 lb of steam per hr at a pressure of 2125 psi with steam temperature of 1050 F and reheat to 1000 F. The units have pressure furnaces and are equipped with five B&W Cyclone Furnaces.

The lower boiler shown is a Radiant Boiler with a divided, dry-bottom furnace. Steam capacity is 950,000 lb per hr at 1750 psi and 1000 F, with reheat to 1000 F. It is pulverized-coal-fired and uses 4 B&W Type EL Pulverizers.

THE STIRLING 2-DRUM BOILER

This unit is available for capacities to 250,000 lb of steam per hr with the boiler, furnace, and fuel-burning equipment coordinated to provide the best over-all performance and economy with any fuel. Stoker-fired standard units have been especially successful, with spacing of tubes in boiler bank and single-pass gas flow contributing to excellence in steaming and freedom from ash fouling, even at high ratings. Atomizers provide a reliable control of steam temperature. Peak load demands and sudden load swings can be met over unusually wide ranges. Simplicity of construction assures low maintenance, while easy accessibility to any part of the boiler permits quick inspection and cleaning. The low draft loss of this unit often permits use of existing stacks and saves power with an induced-draft fan.

B&W INTEGRAL-FURNACE BOILERS

To make the performance-proved advantages of the B&W Integral-Furnace Boiler available for any steam requirements in the range between 2800 to 350,000 lb per hr, and for all fuel conditions, B&W has available five distinct types of Integral-Furnace Boilers. These units embody installation, operating, and maintenance features that provide high boiler efficiency, long-term availability, continuity of service, and overall economy.

Since the introduction of the original Integral-Furnace Boiler in 1933, these compact, water-cooled-furnace units have won wide acceptance from industrial, commercial, and utility users. They provide maximum capacity in small boiler-room space; high fuel economy; smokeless combustion; and economical, fast steaming. These boilers produce clean, dry steam at all ratings with quick response to wide load swings and are available with or without superheaters. These units are easy to clean and are adaptable to the most advantageous method of firing.

The Type FH is the largest of B&W's Integral-Furnace series of boilers with capacities ranging to 350,000 lb of steam per hr and pressures to 1030 psi. Available with either hopper-bottom or flat floor, these units are extensively used for firing with pulverized coal, oil, and gas, singly or in combination.

The Type FF Integral-Furnace Boiler provides capacities from 8000 to 50,000 lb per hr at pressures up to 600 psi. It is widely used with stoker, oil, and gas firing.

Newest member of the B&W Integral-Furnace Boiler family is the Type FM, a shop-assembled unit that combines all the benefits of "package" steam with the traditional economy and advantages of the Integral-Furnace design. The Type FM is in service for steam requirements from 2800 to 18,000 lb per hr at pressures up to 235 psi with either oil or gas firing.

Intermediate capacities are provided by two other B&W Integral-Furnace Boilers, the Type FJ and Type FL.

**BABCOCK
& WILCOX**



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