Johnston Brothers, Inc.

Established 1864

Ferrysburg, Michigan

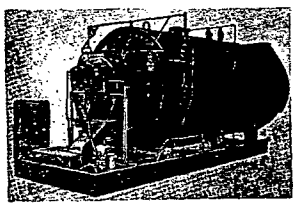
Telephone — Grand Haven 3125

Member SBI

Reg. U. S. Pat. Off.

PACKAGED BOILER UNITS
FULLY AUTOMATIC
OIL OR GAS OR COMBINATION
OIL AND GAS

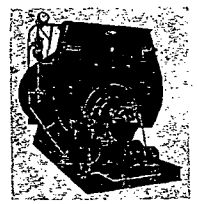
FORCED DRAFT
THREE PASS AND TWO PASS
COMPLETELY ASSEMBLED AND
FIRE TESTED AT FACTORY

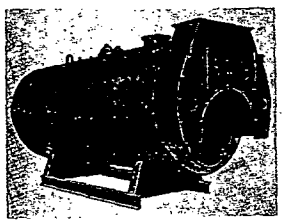


HIGH PRESSURE TYPE from 75 to 750 hp and pressures of 125, 150 and 200 lb psi (250 lb available as a special).

LOW PRESSURE TYPE for heating; 15 lb pressure, and EDR rating from 2190 sq ft to 42,500 sq ft steam.

ASME Code construction. *Underwriters' Laboratory* and *Factory Mutual* Approved. Specification Forms in detail to exactly cover the requirements of any particular job will be furnished upon request and without any obligation whatever. Ask for *Bulletins 509-B, 9600.*



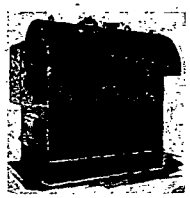


POWER, PROCESS, HEATING

15 to 400 hp and pressures 15 lb to 200 lb psi. For mechanical firing with Coal, Gas or Oil. Overloads up to 200 percent of rating readily developed. Oil or Gas firing equipment and controls can be installed for completely automatic operation and in emergency or fuel scarcity, can be readily converted to Coal firing.

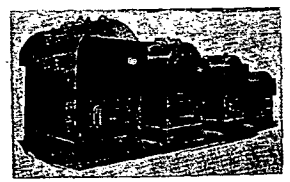
Ask for *Bulletin 4000 and 9500*





Firebox Heating Boiler, Compact Type. Oil, Gas, Stoker or Hand Firing. Three-Pass, 15 lb pressure, *ASME* Code. Capacities 2190 to 42,500 sq ft, *SBI* rating. Ask for *Bulletin 1500.*

Also built for High Pressure (125 psi). Ask for *Bulletin 702.*



WATERBACK DESIGN—Special attention is directed to this valuable feature. The rear combustion chamber is entirely submerged within the boiler water, eliminating use of firebrick, tile, or rear end refractories, thus avoiding the necessity of frequent repair and replacement costs.

SERVICE—Located in each sales area is a factory trained Service Engineer, capable of checking all phases of operation—adjusting controls and equipment to insure continuous maximum performance. Johnston service is prompt, liberal and cooperative—it is available to all customers.

ORR & SEMBOWER, INC.

Builders of Dependable Boilers Since 1885

Reading, Pa.

World-wide Factory-trained Sales and Service Representatives

Complete ONE-SOURCE Responsibility

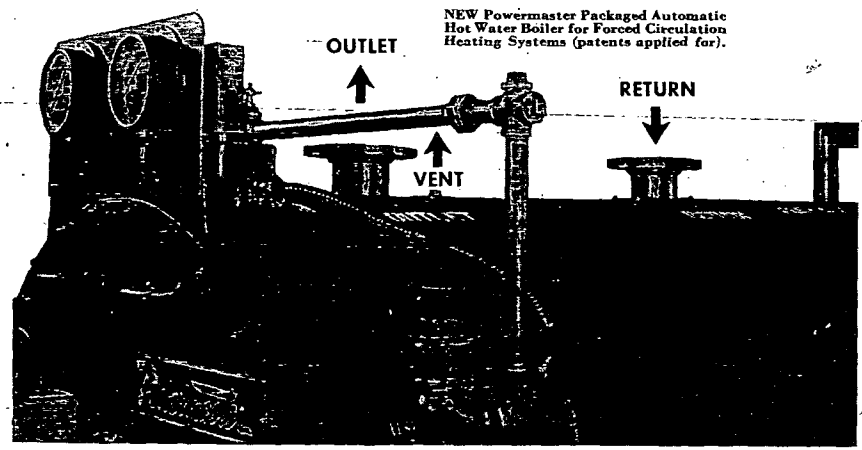
Powermaster® and POWER-PAK® Packaged Automatic Boilers

Fuel Burning Systems—oil, gas and combination oil/gas

Powermaster boilers are modern, completely factory-assembled, automatic units with a world-wide reputation for highly dependable and efficient performance in public buildings, hospitals, schools, apartments, industrial plants and other installations. Three standard models are available in sizes of 20 hp to 600 hp for steam generation to 250 psi, and for hot water to 30 psi. All models are designed and built to *ASME* Boiler Code requirements, approved by *Underwriters' Laboratories, Inc.*, and fully guaranteed by Orr & Sembower, Inc. All units are factory fire-tested and afford these advantages:

- Simple cost-saving installation
- High efficiency at all loads
- Instant response to load swings
- 3-pass boiler with 5 sq ft of heating surface per bhp
- Forced draft firing
- Quick fuel change-over
- Clean, quiet operation
- Fully automatic operating and safety controls
- Convenient accessibility for inspection and servicing
- Nation-wide factory-trained service

NEW Powermaster Packaged Automatic Hot Water Boiler for Forced Circulation Heating Systems (patents applied for).



Powermaster Hot Water Boiler—Powermaster is one of the first hot water heating boilers developed and constructed specifically for modern institutional, commercial and industrial forced circulation heating applications.

The **Powermaster** hot water boiler design and construction utilizes a dip-tube outlet located at the top of the boiler shell, designed to eliminate entry of air and vapor. The return connection, located at the center on the top of the boiler, is baffled to direct return water from the system down around the outer surface of the boiler. An integral vent connection is provided on the boiler.

The O & S Powermaster hot water boiler is not simply a steam boiler converted to hot water service. Its provisions for insuring efficient and effective internal circulation are the result of two years of concentrated research and development. These four advantages of the Powermaster packaged automatic hot water boiler emphasize its importance for every forced circulation hot water system:

1. **Powermaster hot water boiler offers more protection against thermal shock.**
2. **Powermaster internal circulation path eliminates short circuiting.**
3. **Powermaster internal circulation system eliminates stratification.**
4. **The hot water Powermaster insures uniform temperature gradients throughout the boiler.**

Write for information on the Powermaster packaged automatic boiler to meet your specific needs.