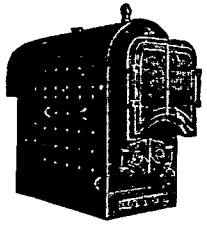
Farrar & Trefts

Incorporated

20 Milburn Street, **Buffalo, N. Y.**

Atlanta, Ga.	Chicago, Ill.	Kingston, Pa.	Richmond, Va.
Auburn, N. Y.	Cleveland, Ohio	Los Angeles, Calif.	Rochester, N. Y.
Batavia, N. Y.	Dallas, Texas	Louisville Ky.	St. Louis, Mo.
Buenos Aires, S. A.	Detroit, Mich.	Minneapolis, Minn.	San Antonio, Texas
Butte, Mont.	Grand Rapids, Mich.	Nashville, Tenn.	San Francisco, Calif.
Cambridge, Mass.	Hutchinson, Kan.	New York, N. Y.	Seattle, Wash.
Charlotte, N. C.	Indianapolis, Ind.	Nutley, N. J.	Toledo, Ohio
Chattanooga, Tenn.	Jamestown, N. Y.	Pittsburgh, Pa.	Washington, D. C.

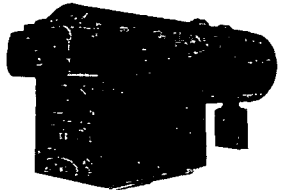


The Bison Compact

The F&T Bison Compact Welded Heating Boiler is more than just another boiler. It has been designed carefully so as to have a large furnace volume, the proper volume of water, just the right amount of steam liberating surface, the correct volume for steam storage and a balanced circulation. The result is a remarkably steady water line—**A Balanced Boiler.**

This boiler requires a minimum amount of floor space and is easy and inexpensive to install. It is reasonable as to first cost and economical in operation. Construction is in accordance with the *A.S.M.E.* Code for 15 lb working pressure and boilers are designed for hand firing with anthracite or bituminous coal or for mechanical firing with oil, gas or stoker. There are various sizes available from 1800 to 35,000 sq ft of steam radiation, all ratings as required by the *Steel Heating Boiler Institute.*

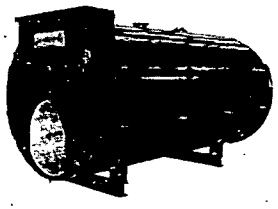
The Bisonette Compact Boiler has the same characteristics as the larger Bison Compact Boiler. It has been designed for installation in large residences and small business establishments where the advantages inherent in a Steel boiler are desired.



Firebox Return Tubular Boiler

Firebox Return Tubular Heating Boilers are Quality Boilers. They are constructed to measure up to the high standards set by Heating Engineers and will give unfailing service under all conditions. Being economical to install and operate, they are highly favored by Architects and Engineers for heating Schools. Hospitals, etc.

There are two types of Firebox Boilers, the Up-Draft Type and the Down-Draft Type. Both types are made of welded or riveted construction for heating purposes at 15 lb working pressure and riveted, or, Class 1 fusion welded x-rayed and stress-relieved for power purposes at 100, 125 and 150 lb working pressure in accordance with the *A.S.M.E.* Code. Sizes from 1800 to 35,000 sq ft of steam radiation, as rated by the *Steel Heating Boiler Institute*, are designed for hand firing with coal or for mechanical firing with oil, gas or stoker.



The Bison Low Pressure Scotch Wet-Back Top Boilers are *carefully proportioned* and *balanced.* They are designed for hand, oil, gas or stoker firing, for ratings from 15 to 250 hp. These boilers operate efficiently and carry sustained overloads. The *Front Smokebox Door Open Sideways* giving easy access to the tubes.

The *Wet-Back Top* increases the heating surface and steam disengaging area, thus adding to the capacity of these boilers. **F & T** boilers are designed so that the round furnace is always longer than the tube length which increases the furnace volume. This gives a large combustion volume in proportion to horsepower rating which makes the boilers very *economical to operate* and exceedingly *"Quick Steamers."*

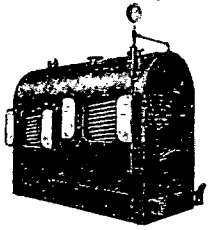
The International Boiler Works Company

East Stroudsburg, Pa.

"Fuel Saver" Water Tube Steel Heating Boilers

SALES OFFICES IN PRINCIPAL CITIES

International "FUEL SAVER" Water Tube Steel Heating Boilers offer the same quick steaming and economy that have long been accepted as most efficient in marine and industrial service. "FUEL SAVER" Water Tube Boilers are available for large and small heating requirements in a wide range of types and capacities.



TYPE C "FUEL-SAVER" WATER TUBE STEEL HEATING BOILERS

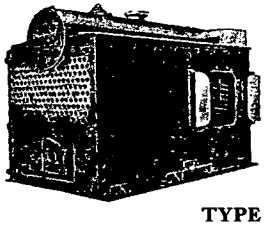
For Office and Apartment Buildings, Schools, Hotels, Theaters, Institutions and Industrial Plants

Built in a complete range of standardized sizes and provide highly efficient performance for heating large buildings.

Up-to-date water tube design permits absorbing the intense heat released by modern methods of firing and they will operate efficiently under loads considerably in excess of ratings.

18 sizes { from 2680 to 42,500 sq ft mechanically fired rating. / from 2200 to 35,000 sq ft hand fired rating.

TYPE KD "FUEL-SAVER" WATER TUBE STEEL HEATING BOILERS



For Replacement Installations in Large Buildings Eliminates Costly Cutting and Patching

Especially designed for renovation and replacement work. Shipped knocked down in standardized parts that can be taken through existing doors or openings to basement and boiler room.

INTERNATIONAL erects or assumes full responsibility for erection work of knocked down boilers.

15 sizes { 5850 to 56,470 sq ft mechanically fired rating. / 4810 to 46,510 sq ft hand fired rating.

TYPE FR STEAM GENERATOR UNIT

Scotch Type with Forced Recirculation

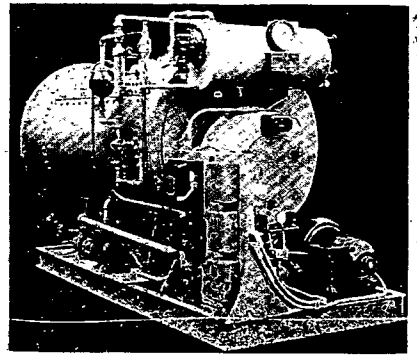
For Military, Marine, and Civil-Power, Processing, or Heating

The TYPE FR Steam Generator is a compact and completely coordinated self-contained unit, with an exceedingly low space, weight, and horsepower ratio.

Standard construction and equipment has been stressed in the design and manufacture of Type FR Steam Generators.

Operators quickly recognize that the familiar features and extreme simplicity of these units guarantee easy maintenance and trouble-free operation.

TYPE FR Steam Generators are mounted on rigid steel chassis, with all auxiliary equipment necessary for self-contained and automatic operation when connected with electrical, fuel oil, and feed water supply lines.



Licensed under LaMont Patents

TYPE FR Steam Generators are furnished in all standard working pressures, from 15 to 200 pounds per square inch, and from 20 to 300 boiler horsepower.

ADVANTAGES

1. **Portability**—Type FR Steam Generators are complete package units.
2. **Minimum Installation Time**—Every unit is adjusted and tested before shipment, for efficient performance at rated capacity.
3. **No Stack**—Primary and secondary air for efficient and smokeless combustion are furnished by forced draft fan. A small exhaust vent is all that is required.
4. **FUEL SAVER**—Overall efficiency 80 per cent +.