Combustion Engineering Company, Inc.

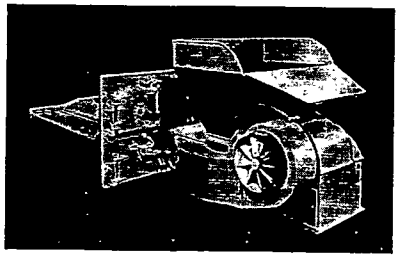
All Types Fire and Water-Tube Boilers
Complete Steam Generating Units

Mechanical Stokers
Pulverized Fuel Systems

200 Madison Avenue, New York, N. Y.

Canadian Associate: COMBUSTION ENGINEERING CORP., LTD., MONTREAL

CE-SKELLY STOKER UNIT



The CE-Skelly stoker is designed for installation under boilers ranging from small heating units to power boilers developing up to 400 hp.

Summary of Features

A Self-Contained Unit—Hopper, fuel feeding and distributing mechanism, grate, windbox, driving mechanism and forced-draft fan are combined in a compact unit.

Hopper—Made of rust- and corrosion-resisting metal. Non-clogging and easily removable. Does not interfere with access to furnace doors. Located at convenient height for filling with shovel.

Coal Feed—Screw conveyor, located entirely outside of retort and protected from heat, advances the coal from hopper to entrance of retort. Reciprocating ram in retort continues the feeding and provides agitation of the fuel bed in the retort zone.

Grate Surface—Alternate fixed and moving grate bars. Designed for correct air distribution and made of a special heat-resisting metal assuring low maintenance.

Air Supply—Integral forced draft fan, with inlet damper control, supplies air to windbox under the stoker. Volume of air may be regulated by control to suit the rate of coal burning.

Control—Automatic control furnished as standard equipment.

Application—For new boilers or for existing boilers having obsolete or inefficient firing equipment. Small clearances permit installation with only slight alterations in most cases.

Operation—Simple, easy, dependable. Variable-speed transmission permits 16 rates of coal feed. Control levers conveniently located.

Write for New 24-page Catalog No. SU-5G

OTHER CE STOKERS

Nearly 14,000 CE stokers installed to date. The CE line of larger stokers includes the following, of which Type E, Coxe and Green are among the leaders in their respective fields.

Type K Stoker—A single retort underfeed stoker for burning bituminous coals under boilers in the upper size range of the CE-Skelly Stoker Unit.

Type E Stoker—A single retort underfeed stoker for burning bituminous coal under boilers up to about 600 rated hp.

CE Multiple Retort Stoker—For burning semi-bituminous and bituminous coals under boilers up to the largest sizes.

Coxe Stoker—A traveling grate stoker for burning small sizes of anthracite, coke breeze and lignite.

Green Stokers—A chain grate stoker available in both natural and forced draft types for burning non-caking or free-burning bituminous coals.

CE BOILERS

All fire tube and water tube types in sizes ranging from 25 hp up to the largest. Included are all designs formerly known by the trade names "Heine," "Walsh & Weidner," "Casey-Hedges" and "Ladd."

Classified broadly, the various types of CE Boilers are as follows: BENT TUBE—multi-drum, four-drum, three-drum, two-drum (complete steam generators). STRAIGHT TUBE—sectional header, box header (cross drum and long drum). STEAM GENERATORS—complete standardized units available in two types. FIRE TUBE—hrt, vertical, internally-fired, locomotive type. MARINE—sectional header, bent tube. WASTE HEAT—straight tube, bent tube.

CE PULVERIZED FUEL SYSTEMS

Formerly known by the trade name "Lopulco," available in both direct fired and storage types for boilers ranging from 200 hp up. The CE-Raymond Bowl Mill, a pulverizer of advanced design, may be used in either direct fired or storage installations.

A-315

Farrar & Trefts

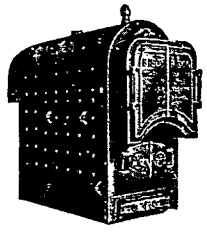
Incorporated

Buffalo, N. Y.

HEATING AND POWER BOILERS
Bison Compact Boilers
Bisonette Compact Boilers
Firebox Return Tubular Boilers
Firebox Locomotive Type Boilers
Scotch Marine Type Boilers
Vertical Boilers
Horizontal Return Tubular Boilers
Bison Two-Pass Return Tubular Boilers

Established 1864

STEEL PLATE CONSTRUCTION
Storage and Pressure Tanks
Receivers, Welded or Riveted
Steel Pipe, Welded or Riveted
Buoys, Welded or Riveted
Condensers and Kettles
Smokestacks and Breechings
Special Work in Stainless Steel, Everdur, Nickel, Aluminum or Monel Metal

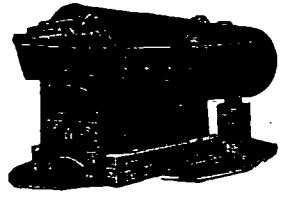


The Bison Compact

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.*

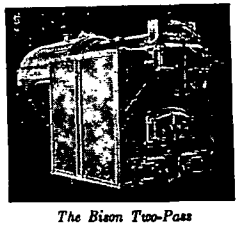
The **Bisonette Compact Boiler** has the same characteristics as the larger Bison Compact Boiler. It has been designed for installation in large residences and small business establishments where the advantages inherent in a Steel boiler are desired.



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 of riveted construction 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 Two-Pass

The **Bison Two-Pass Return Tubular Refractory Lined Boiler** is favored by many Engineers because it **Eliminates Water Legs, Flat Sides and Staybolts.** This boiler is dependable for long years of continuous and economical operation. It stands up under heavy loads and provides that surplus of power so often needed.

This type of boiler is made of welded construction for 15 lb. working pressure and of riveted construction for 100, 125 and 150 lb. working pressure in accordance with the *A.S.M.E.* Code. Boilers are designed for ratings from 25 to 250 hp. and are inspected, tested, and stamped by a representative of a reliable insurance company before shipment. They are furnished for hand firing with coal or for mechanical firing with oil, gas, or stoker.