

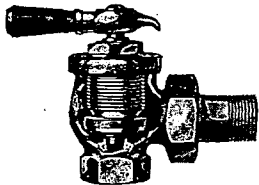
The Bishop & Babcock Sales Co.

GENERAL OFFICES: 4901—4915 Hamilton Avenue, N.E., CLEVELAND, OHIO

AMSTERDAM, N. Y. F. E. Dwyer, 447 Guy Park Ave.
BALTIMORE, MD. Building Service Co., 404 St. Paul St.
BOSTON, MASS. Tierney Wilson Co., Little Bldg.
CHICAGO, ILL. The Bishop & Babcock Sales Co.,
112 W. Austin Ave.
CINCINNATI, OHIO, C. R. Lingo Eng. Sales Co.,
320 Central Office Bldg.
DENVER, COLO. The Daly Co., 1425 Sixteenth St.
DETROIT, MICH. Wolley Eng. Sales Co., 506 Donovan Bldg.
LYNCHBURG, VA. Cleland Eng. Co., 208—5th St.

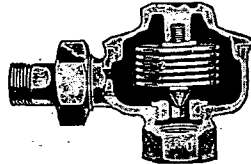
MINNEAPOLIS, MINN. Continental Sales Co.,
924 Metropolitan Life Bldg.
NASHVILLE, TENN. Ryan Sales Co., 922 Stahlman Bldg.
NEW YORK, N. Y. The Bishop & Babcock Sales Co.,
444 Lafayette St.
OKLAHOMA CITY, OKLA., Federal Steam Specialty Co.,
120-2 E. Main St.
PHILADELPHIA, PA., Alexander & McDevitt, 1725 Sansom St.
RICHMOND, VA. Virginia Equipment & Supply Co.
SAN FRANCISCO, CALIF. Walter S. Leland, 532 Natoma St.
SPOKANE, WASH. R. L. Nelson, 507 Empire State Bldg.

Heating Specialties—Temperature Control—Ventilating Equipment



Special Modulation Valve

Bishop & Babcock manufactures a complete line of Heating and Ventilating Equipment. Its products comprise all devices and apparatus used in up-to-date



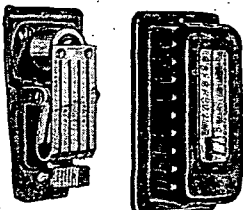
B. & B. Multiflex Trap No. 6

vacuum and vapor Heating Systems, Temperature Control and Ventilating Systems. It is entirely practical for an engineer and architect to standardize with Bishop & Babcock apparatus—every device for the entire system can be a B. & B. product.

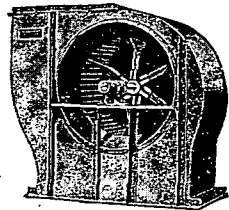
Bishop & Babcock has been manufacturing heating, ventilating and temperature control apparatus for many years, its installations including many of the most prominent buildings in all parts of the country. Seamless one-piece Multiflex Metal Bellows are a fundamental part of Bishop & Babcock Heating Specialties and Temperature Regulation. In the manufacture of these vital parts for the construction of Thermostatic Traps, Valves, and other devices Bishop & Babcock exercise the same care and rigid adherence to high standards that characterize all their products.

Our Engineering Data Book, pocket edition, will be mailed upon request.

Separate catalogues are issued on Bishop & Babcock Temperature Control Systems and Massachusetts Fans, Blowers and Air Washers—copies of which will be furnished upon request.



All Metal Thermostat



Single Width Squirrel Cage Fan

Combustion Specialties Corporation

Manufacturers of



250 West 54th Street, New York

FOR HEATING PLANTS

Saves coal and labor, maintains even heat with less draft.

FOR POWER PLANTS

Higher evaporation per pound of coal eliminates smoke

Walter S. Timmis, past president of the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS has written an extensive report on COMBUSTO Draft System from which the following paragraphs are quoted. (Complete report will gladly be forwarded on request.)

Mr. Timmis states, "To secure the most economical results in combustion for heating it is necessary to use the proper amount of air under the fuel bed for the distillation of the gases and the correct amount of air properly diffused, preferably heated and delivered over the fire bed in order to complete the combustion by burning the distilled gases—in brief—an efficient boiler is a gas producer having means for consuming gas produced."

WHAT COMBUSTO IS

To quote Mr. Timmis further, "Combustio is a system carefully studied, tested and developed for each individually different case and provides means for supplying the necessary diffused and heated air (oxygen) over the fire to properly complete in the second stage the combustion begun in the fuel bed by distillation of gases."

UNIQUE AND FUNDAMENTAL REQUIREMENT FOUND IN COMBUSTO

"Perhaps the most important feature of Combustio is the resistance to the flow of air through

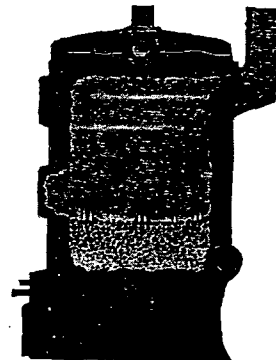
the apparatus itself, which is made to equal the resistance of the fuel bed, thus producing a balanced condition above and below and through the fuel bed—a fundamental requirement for correct and economical combustion which is ignored in regular furnace and boiler design.

WHAT COMBUSTO DOES

(See illustration of COMBUSTO equipped plant below.)

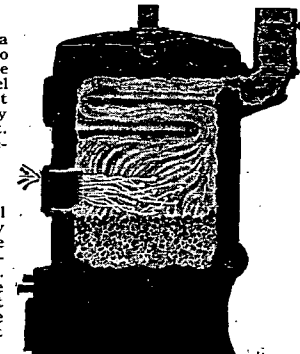
"Combustio is of cast iron cellular structure, the air is heated on passing through this structure and is then discharged through a large number of small apertures over the fire bed. The amount of air thus admitted having been carefully computed for the required conditions, the result is practically perfect combustion, which to the user of Combustio results in—

- Economy of fuel
- Fewer firings
- Complete combustion of fuel, hence—
- A finer ash and reduction of clinker
- Elimination of coal gases
- Means for producing a steady even heat."



COAL WASTED (Left)

Without Combustio, a checked fire produces no dependable results. The gases that distill from fuel bed are a total loss. Heat can be produced only by speeding up stack draft. This is wasteful and requires frequent attention.



COAL SAVED (Right)

With Combustio, all gases are burned completely with Bunsen blue flame with stack draft continuously checked to minimum. Hence, amount of gas made can be regulated to amount of heat needed by simple adjustment of the ash pit damper.

SPECIFICATION: The following clause adopted since 1916 by one of the largest railways in the United States is suitable as a standard specification in connection with low pressure hot water or heating boilers or warm air plants: "Equip all boilers (warm air furnaces) with Combustio of size recommended by Combustion Specialties Corporation's engineers."

STYLES: Combustio is manufactured in 28 basic styles—each style is capable of adjustment to meet specified conditions. Suitable styles are manufactured for practically any type of heating plant and for all sizes and grades of fuel.

PRICES: Prices range from \$25.00 on small house-heating plants to \$200.00 on largest low pressure heating boilers. Definite estimates must once be submitted if manufacturer's name and number of boiler is sent to us, together with size of grate and number of fire doors.