

Thrush
Differential
Pressure
Relief

H. A. Thrush & Company

Makers of Thrush System

Factory and Offices

Peru, Ind.

Thrush
Automatic
Damper
Regulator

Thrush System comprises equipment to be added to any unregulated gravity hot water heating plant to make it a "Closed System" operating under slight added pressure and with automatic control of dampers.

Thrush Differential Pressure Relief Valve

A large flexible diaphragm which places a thrust against the Valve member making it certain that the Valve will open. Valve seat is at all times submerged in water, won't corrode because it has no contact with atmosphere. Dirt and sediment will not collect at the valve seat. Design is such that heavier solids fall away from seat. Regularly set to open at 26 lb. pressure for 1, 2 and 3 story buildings. For higher buildings, adjustments made at factory. Non-adjustable and not easily tampered with. No small restricted openings.

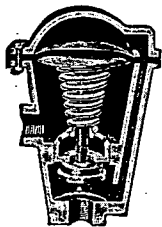


Fig. 1

Thrush Automatic Temperature Damper Regulator



Fig. 2

Its operation depends upon the temperature change of the water circulating through the heating system and not upon pressure. Maintains different water temperatures by simple adjustment of sliding weights on lever. Multiple disc thermostat sets in dry well permitting easy inspection. A fuel saver. Easily connected with one short nipple as shown in Fig. 6.

Thrush Pressure Tank



Fig. 3 Thrush Pressure Tank

Serves two purposes—conserves hot water and returns it to system—and being closed to the air, it maintains pressure on the system by compression and expansion of the air in the tank. Thrush tanks are made of copper bearing steel, welded and tested, coated with enamel. Connect as shown in Fig. 6.



THRUSH
THERMOMETER
and SPECIAL GAUGE
furnished with
Thrush System
simplify operation.



Fig. 4

Fig. 6

Benefits of Thrush System of Hot Water Heating

Thrush Pressure System actually increases rate of heat transmission,—faster circulation and hotter radiators. Therefore lower water temperatures may be carried.

Installation is easy, requiring but 6 ft. of $\frac{3}{4}$ in. pipe and eight fittings. A further reduction of pipe sizes makes for lower cost and higher efficiency.

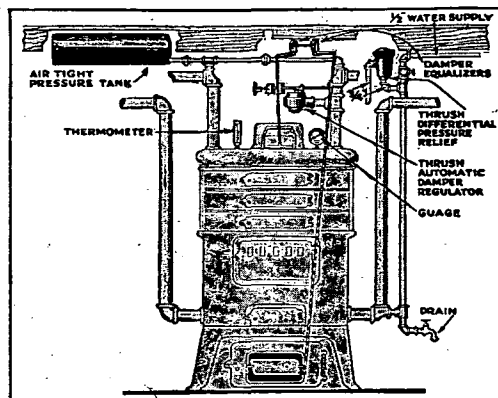


Fig. 6

DATA AND SPECIFICATIONS

CLASS "A" EQUIPMENT

Consists of Thrush Automatic Temperature Damper Regulator, Differential Pressure Relief, Air Tight Pressure Tank, Special Gauge and Thermometer.

CLASS "B" EQUIPMENT

Consists of Thrush Differential Pressure Relief, Air Tight Pressure Tank, Special Gauge and Thermometer.

SIZES

Size No. 0 up to 350 sq. ft. of radiation
Size No. 1 up to 750 sq. ft. of radiation
Size No. 2 up to 1250 sq. ft. of radiation
Size No. 3 up to 2000 sq. ft. of radiation

For larger job use additional pressure tanks of proper capacity

Consolidated Ashcroft Hancock Co., Inc. American Schaeffer & Budenberg Division

338 Berry Street

Brooklyn, N.Y.

BRANCHES IN PRINCIPAL CITIES

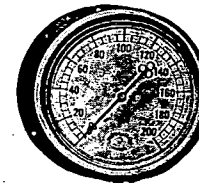
Manufacturers of Indicating and Recording Gauges; Gauge Testers; "U" Gauges; Draft Gauges; Indicating and Recording Thermometers; Tachometers; Dial Thermometers; Pressure and Temperature Controllers; Electric Temperature Controllers; Pop Safety and Water Relief Valves; Steam Traps; Engine Indicators; Counters; Absolute Pressure Gauges.

Also manufacturers of Locomotive and Engine Room Clocks; Barometers; Mercury Column Gauges; Steam Whistles; Hydraulographs; Gauge Boards.

American Quality Gauges

American Quality Gauges are made in all sizes from $2\frac{1}{4}$ to 12 in., for pressures from 10 to 30,000 lb. and also for vacuum. Cases are cast iron or cast brass. The movements are Heavy Duty and all bearings are Monel Metal. Write for Catalog No. A-59.

For Mercury Pressure and Vacuum Gauges, "U" Gauges, Draft Gauges and Mercurial Barometers, write for Catalog No. B-59.

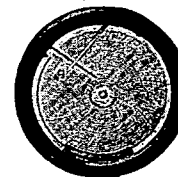


American Recording Gauges

American Recording Gauges are made for all pressures from 15 in. of water to 10,000 lb. and for vacuum. They are made in one size only to accommodate a 10 in. chart, having an effective scale width of $3\frac{3}{4}$ in. The case is Die Cast with a dull black hard-rubber finish and with either bottom or back connection. The pen-arm is made of non-corrosive Monel Metal and is of the inverted type. Operating instructions are lithographed on the chart plate so that they cannot be lost.

Especially designed Seth Thomas clocks are used, and all customary time periods can be furnished. American Recording Gauges are equipped with the Time Punch which virtually makes each instrument a time clock, since a hole is punched in the chart whenever a reading is taken.

Write for Catalog E-59.

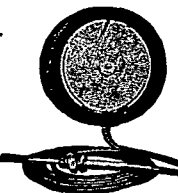


American Recording Thermometers

American Recording Thermometers are made for recording all temperatures from minus 40 to plus 1000° F. or equivalent C. and with very flexible connecting tubing up to 200 ft. Made in one size only to accommodate 10 in. chart, with any effective scale width of $3\frac{3}{4}$ in.

The case is the same as for the American Recording Gauge, so that all instruments are uniform in appearance when mounted on Gauge Boards. American Indicating Gauges and Dial Thermometers are also furnished in same case.

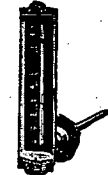
Write for Catalog H-59.



American Air Duct Thermometer

Designed especially for both warm and cold air ducts. Fitted with polished brass or nickel plated "V" shaped case, glass front. Furnished with 9-in. or 12-in. scale graduated 0-160° F.

Write for Catalog F-59.



American Dial Thermometers

American Dial (mercury-filled) Indicating Thermometer has the accuracy of the standard glass tube thermometer and the reading convenience of a dial face. Entire working mechanism is made of steel, meaning long life.

Standard size of dial 6 and 12 in. Furnished with either rigid connection or flexible capillary steel tubing up to 200 ft. long. Made for any temperature range from minus 40 to plus 1000° F.

Write for Catalog G-59.



American Automatic Controllers

A complete line of American Controllers for automatically controlling pressure, vacuum, temperature, condensation, humidity liquid levels, timing of processes, control of dampers, etc.

Write for Catalog R-59.

American Pop Safety and

Water Relief Valves

Safety Valves of brass and iron for any set pressure up to 300 lb., and of cast steel with outside spring up to 400 lb. Relief Valves of bronze and iron for pressures up to 10,000 lb.

Write for Catalogs U-59 and V-59.

