



Rochester Manufacturing Co., Inc.

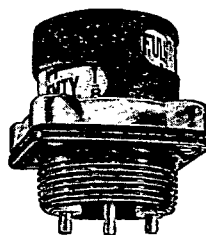
80 Rockwood St., Rochester 10, N. Y.

274 Madison Ave., NEW YORK 16 · 9443 S. Ashland Ave., CHICAGO 20 · 14 Agawam Rd., WABAN, MASS · 2949 Harriet Ave., S., MINNEAPOLIS · 1355 Market St., SAN FRANCISCO 3 · 1011 Greenmount Ave., BALTIMORE 2 · 6270 Souder St., PHILADELPHIA 24 · 4 Manor Rd., East, TORONTO, ONTARIO, CANADA.

Liquid level, pressure and temperature gauges in a wide range of types

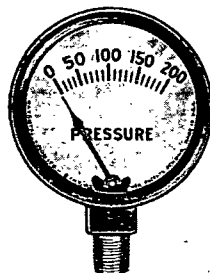
"DUAL-DIAL" FUEL LEVEL TANK GAUGES

These highly dependable, easy-to-read fuel level gauges have been the standard of the industry for 25 years. They feature a magnetic gauge action which makes them leakproof-pressure tight. The pointer is actuated by a permanent non-electric magnet in solid gauge head. No shaft hole or shaft penetrates this pressure tight seal. A steel cap with unbreakable windows protect dials. *Underwriters* listed. Mounts on top of tank at center or either end in pipe thread fitting—1½ in., or 2 in. for all basement tank depths—22 in., 40 in. or 47 in. Model 3175.



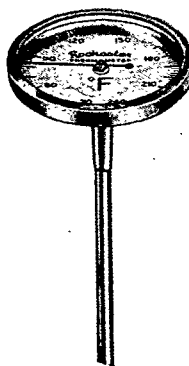
PRESSURE AND VACUUM GAUGES

Designed for indicating and testing. Pressure gauges available in various ranges but Model 2450 is typical. Range 0 to 200 psi, 2 in. dial, ½ in. bottom connection. All moving parts made of materials that withstand wear and vibration. Special diaphragm and dampner construction provide long service life. All gauges *individually calibrated* for accuracy. Model 2450.



CIRCULATION AIR CONTROL THERMOMETERS

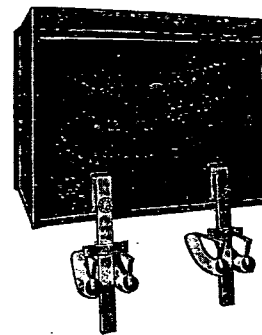
Circulation Air Control Thermometer Kit. Packed three to a Kit, permits accurate balancing of air temperature in any type of forced air heating. To be inserted in warm air duct, return air duct and near blower switch all at one time. Stainless steel with 2 in. easy to read dial and 9 in. stem with tapered bushing to fit snugly in awl or nail pierced hole. Sturdily and accurately made.



Simplex Manufacturing Company

Fond du Lac, Wis.

SIM-TROL Barometric Draft Controls—SIMPLEX Roof Vent Flashings



Type "A"

As breechings and stacks must provide sufficient draft under adverse atmospheric conditions, therefore, during normal and high barometric conditions, cold months and windy periods, they generate highly excessive draft intensities with resulting inefficiency and fuel waste.

ADVANTAGES

A SIM-TROL automatically maintains a constant minimum draft required for good combustion, effects fuel savings, reduces the velocity of hot gases through the boiler increasing heat transfer, reduces air infiltration and cold air inrush causing sudden shrinkage of boiler parts. It eliminates local hot spots in coal firing. In oil and gas firing, it eliminates floating and pulsating flames and sucking out of pilots. Feed water regulation improves, more even super-heat results, boiler life is increased, tube clogging reduced and boiler room ventilation improved.

A SIM-TROL aids materially in smoke abatement by reduction of unburned combustibles and by dilution of combustion products with air. Excessive stack temperatures are eliminated, reducing fire hazards and lengthening stack liner life.

CONSTRUCTION

A SIM-TROL is easily adjusted for accurate performance. The races adjust laterally, the race assembly vertically, and the angle of the arm may be varied in relation to the plane of the gate. Properly sized SIM-TROLS allow adjustment for any desired draft intensity.

Gates of Type A and Type C SIM-TROLS rotate on cold rolled steel arbors and dustproof ball bearings. Curved tubular counterbalances contain heavy metal balls constantly changing position to compensate for varying angles of the gate as it rotates to govern air input to the breeching or stack. Maintains an over-fire draft within 0.01 in. of water, plus or minus.

All parts, except bearings, are protected by hard, heat resisting boiler room enamels. All counterbalance members are outside, free from encrustment and corrosion by products of combustion.

DESIGN FACTORS

Sizing is extremely important. The gate, or input opening, should equal the breeching or stack area. When stack height exceeds 65 ft, we recommend 10 per cent increase of input area for each additional 35 ft or considerable fraction thereof. When possible, preference should be given to a wide control, rather than a high gate, for adjustment ease.

Horizontal clearance from breeching or stack should approximate gate height plus 30 in. Over-all height approximates gate height plus 37 in. Over-all width will approximate gate width plus 8 in. However, SIM-TROLS can be designed successfully for limited spaces when boiler room plans are submitted.

SIM-TROL types A and C are individually designed to requirements and specifications of the plant to be served. Upon receipt of stack and breeching dimensions, clearances, number of boilers and method of firing, a sketch of the recommended SIM-TROL is submitted for approval, without obligation.

SIM-TROL barometric draft controls are available from 4 in. diameter up to capacities for the largest plants. Descriptive material and prices on request.

FLASHINGS

Simplex Roof Flashings of Cast Lead, Sheet Lead, and Copper or Galvanized Steel with lead calking collars are available for use on all round flue and vent pipes protruding from the roof.