Minneapolis-Honeywell Regulator Company

Factories: MINNEAPOLIS, MINN., PHILADELPHIA, PENNA., AND WABASH, IND.

Branch Offices:

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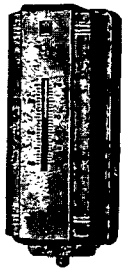
In Canada: MONTREAL, TORONTO,* CALGARY, WINNIPEG **In Europe:** AMSTERDAM, HOLLAND,* LONDON, ENGLAND*

*Stock carried at these offices

THE MODUTROL SYSTEM OF AUTOMATIC CONTROL

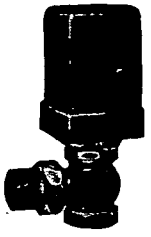
for Heating, Ventilating and Air Conditioning



Room Thermostat



Humidity Controller



Electric Motor Radiator Valve

The Modutrol System designation is applied to any combination of Minneapolis-Honeywell Automatic Electric or Pneumatic Controls or Self-contained Automatic Valves used to govern the operation of air conditioning or heating systems other than the small domestic installations.

INCLUDES SUPPLEMENTARY EQUIPMENT

Supplementing the modulating controls is a wide variety of on-and-off or two-piston motors, controllers and valves, both electric and air actuated, thus making the **Modutrol System** extremely flexible as to the selection of control equipment to produce the desired results.

EMPLOYS BOTH ELECTRIC AND PNEUMATIC CONTROLS

The **Modutrol System** provides both types of control, thus enabling us to make a real contribution to the heating, ventilating and air conditioning industry. With the **Modutrol System** Minneapolis-Honeywell is prepared to offer comprehensive and unbiased recommendations for installation in all types of buildings, existing or new, large or small, at prices commensurate with the needs of each project. These recommendations include:

1. Pneumatic control only, where that type of control will give satisfactory service and where low first cost is of special importance.
2. Combination pneumatic and electric control where a somewhat higher degree of accuracy is needed.
3. Electric control in those installations where precise, flexible and dependable results are required.

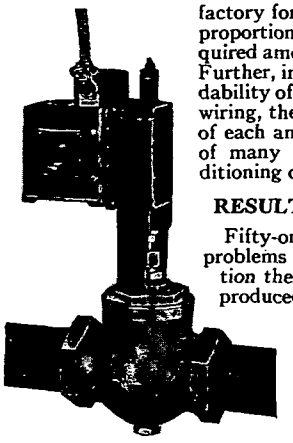
REDUCES COST OF HEATING OR AIR CONDITIONING SYSTEM OPERATION

In new buildings or old, a lowering of operating costs, and an immense improvement in the comfort delivered, can be accomplished by considering the control system as an integral part of the heating system. In fact, automatic control systems today cannot be considered as accessory to the heating systems.

PROVIDES TRUE MODULATION

Viewed from the performance standpoint, the electric controls of the **Modutrol System** offer a dependable means of effecting true modulation of the temperature, air flow and humidity, though our pneumatic controls provide a degree of modulation which is satis-

See also Page 983



Motorized Valve

factory for many installations. True modulation means automatic proportioning of heat, cold air flow, or humidity in exactly the required amount to offset changes in the heat loss or relative humidity. Further, in the Electric **Modutrol System** the well known dependability of electric switches and motors, the permanency of electric wiring, the flexibility of self-contained units and the accessibility of each and every portion of the equipment represent just a few of many advantages offered in this modern means of air conditioning control.

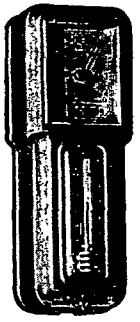
RESULT OF OVER A HALF CENTURY'S EXPERIENCE

Fifty-one years of concentration upon temperature control problems has built up within the Minneapolis-Honeywell organization the knowledge, technique and engineering ability which have produced the **Modutrol System** as well as the comparatively simple domestic control systems.

ENGINEERING SERVICE

The Minneapolis-Honeywell Automatic Control engineer is at your service at all times. He will be glad to furnish you with recommended control layouts and cost estimates.

He is trained to recommend control results before installation of equipment and to produce control results after the installation of equipment has been completed.



Electric Clock Thermostat

COMPLETE INSTALLATION SERVICE

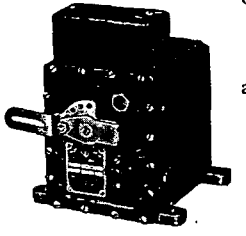
Minneapolis-Honeywell Branch Offices are equipped to make the complete installation of the **Modutrol System** for control of Air Conditioning or Heating installations. Thoroughly trained men are also available to supervise, adjust, or service the control equipment. A stock of standard control equipment is carried at more than twenty points throughout the country for quick delivery.

RESPONSIBILITY FOR ENTIRE CONTROL SYSTEM

The **Modutrol System** and its supplementary equipment is so complete that the Minneapolis-Honeywell Regulator Co. is equipped to assume the entire responsibility for any control installation, thereby eliminating the difficulties and misunderstandings which the division of responsibility may create.

TYPICAL SPECIFICATIONS

A complete set of typical specifications covering automatic control systems for use in heating, ventilating, and air conditioning is available for use by engineers and architects.



Modutrol Motor

DESCRIPTIVE LITERATURE

Catalogs arranged according to the following subdivisions are available upon request:

1. The **Modutrol System.**
2. Air Conditioning Controls.
3. Oil Burner Controls.
4. Gas Heating Controls.
5. Stoker Controls.
6. Industrial Regulator Controls.
7. Refrigeration Controls.
8. Complete Condensed Catalog.
9. Brown Instruments for Heating, Ventilating and Air Conditioning.

In addition to this literature, complete data sheets are available, including technical information on all equipment in the **Modutrol System** which is of prime interest to the engineer. These pages will be furnished on request.