Johnson Service Company

TEMPERATURE AND HUMIDITY CONTROL

General Offices and Factory

Milwaukee, Wis.

Branch Offices in all Large Cities

JOHNSON TEMPERATURE REGULATING CO. OF CANADA, LTD., 97 JARVIS STREET, TORONTO, ONT.
MONTREAL, QUE. WINNIPEG, MAN. CALGARY, ALB. VANCOUVER, B. C.

Products and Services

Manufacturers, engineers, and contractors for Automatic Temperature and Humidity Control Systems applied to all types of *heating, ventilating, and air conditioning installations.*

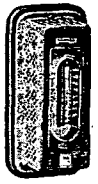
Temperature and Humidity Control for every range required in *manufacturing and industrial processes.*

Room temperature control applied to radiators and heat delivery ducts. *Johnson "Duo-Stats"* to maintain the proper relationship between outdoor and radiator temperatures, for groups of radiators or "heating zones."

Periodic Flush Systems for intermittent flushing in various sections of a building, reducing load on piping system and insuring economy in use of water.

Special bulletins and catalogues on request. Direct branch offices in principal cities.

Johnson All-Metal Thermostats



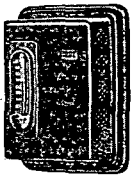
Room Thermostat

All Johnson thermostats, both room and insertion types, are *all-metal* throughout, having no soft or hard rubber parts to deteriorate and become inoperative. Every thermostat is precise in construction and is thoroughly tested for accuracy, efficiency, and durability.

The Johnson *intermediate action thermostat* gives a true graduated motion to mixing dampers and valves. It holds them in an intermediate position to maintain the temperature of the room accurately within one degree above or below the setting of the thermostat.

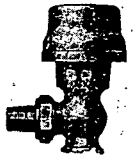
Johnson *diaphragm valves* are simple and rugged. Seamless metal bellows and heavy spring operate the valve stem. No complicated moving parts.

Johnson Dual or Two-Temperature Thermostat



Dual Thermostat

The *Dual, two-temperature, thermostat* is especially adapted for use where various rooms or groups of rooms are occupied when the remainder of the building is not in use. Separate steam mains are avoided. The shifting from "day" or occupancy temperature to an economy temperature for "non-occupancy" conditions, is accomplished by a switch or Johnson program clock at a central point. Push buttons on the thermostat are provided when "occupant control" is desired. Dual thermostats are all-metal and operate valves and dampers gradually to maintain temperature accurately within one degree.



Radiator Valve

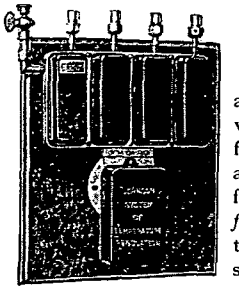
Humidostats and Humidifiers

The *Johnson humidostat* automatically controls the supply of moisture delivered to the air by a humidifier or air washer and maintains a constant percentage of relative humidity. Available in both room and insertion patterns and with elements as determined by requirements, the most sensitive controlling within 1 per cent at relative humidity of 95 per cent for 100 degrees F.

Johnson humidifiers are furnished in steam "grid" type or pan type with copper evaporating pan, brass heating coil, and float control.



Room Humidostat (Cover removed)



Four-point Multiple Thermostat

Automatic Regulation of Ventilating and Air Conditioning

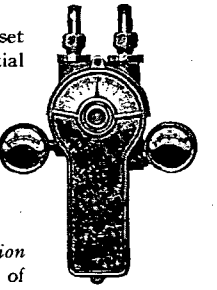


Pneumatic Switch

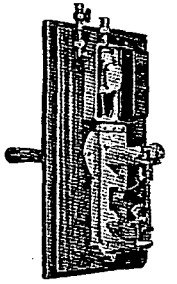
Insertion thermostats in one, two, three, and four-point patterns for operating valves and dampers successively at different temperatures. Direct or reverse acting and in various ranges of sensitivity from one degree to twenty degrees. *Differential thermostats* to maintain desired temperature differences between two points such as outdoors and treated space.

Remote readjustable thermostats, re-set from a distant point by pilot or differential thermostat or by pressure switch.

Solenoid air switches, manual switches, static pressure regulators, velocity regulators operating dampers to regulate flow of air in ducts.



Calibrated Duct Thermostat



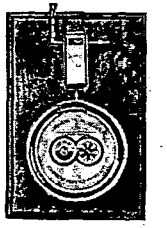
Remote Readjustable Thermostat

Process Control

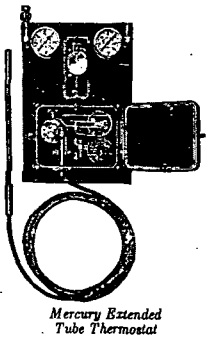
Adjustable range and *calibrated insertion thermostats* for controlling temperature of liquids, air and gases. Mercury *extended tube thermostat* for use where remote location of sensitive element is necessary. *Wet and dry bulb thermostats* for close regulation of humidity. *"Record-O-Stats,"* combination instruments to record and control temperatures.

Zone Control

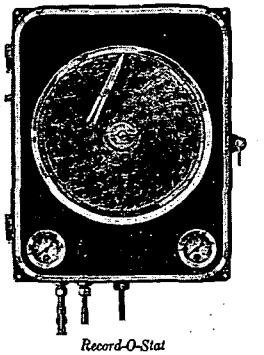
Johnson "Duo-Stats" to regulate the flow of heat in a group of radiators constituting a "heating zone" by maintaining the proper relationship between outdoor and radiator temperatures.



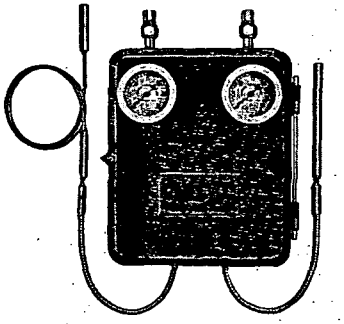
Program Clock



Mercury Extended Tube Thermostat



Record-O-Stat



Johnson "Duo-Stat"