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, ALTA. VANCOUVER, B. C.

Products and Services

Manufacturers, engineers, and contractors for Automatic Temperature and Humidity Control Systems applied to all types of *heating, cooling, ventilating, and air conditioning installations.* A single nation-wide organization devoted to Design, Manufacture and Installation for more than 50 years.

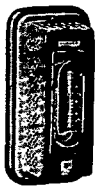
Temperature and Humidity Control for every range required in *manufacturing and industrial processes.*

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

A complete line of devices for automatic control of *air conditioning systems*, heating, cooling, humidifying, dehumidifying. Automatic seasonal shifting of control cycles.

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. Sales Engineers at branch offices in all principal cities.



Room Thermostat

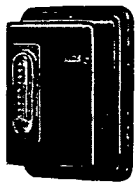
Johnson All-Metal Thermostats

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

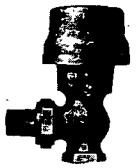
The Johnson *intermediate action thermostat* gives a true graduated action to mixing dampers and valves. It holds them in an intermediate position to maintain the temperature of the room accurately within one deg. above or below the setting of the thermostat, if desired.

Johnson "Dual" or Two-Temperature Thermostats

The *Dual, two-temperature,* room thermostat 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 avoided. The shifting from "day" or occupancy temperature to an economy temperature for "non-occupancy" conditions, 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.



Dual Thermostat



Radiator Valve

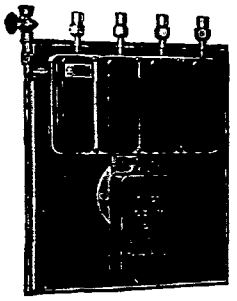
Johnson Valves

Johnson *diaphragm valves* are simple and rugged. Seamless metal bellows and heavy spring operate the valve stem. No complicated moving parts. Made in all standard sizes and patterns. Direct acting (normally open) or reverse acting (normally closed). Three-way mixing and three-way bypass valves.

For steam, water, brine, and Freon service. Johnson valves are available, if desired, with diaphragms of special moulded rubber, super-aged and heat-resistant.



Room Humidostat



Four-Point Insertion Thermostat

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 various types of elements as determined by requirements, controlling within 1 per cent at relative humidity of 95 per cent and 100 deg Fahr if desired.

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

Air Conditioning Control

Summer-Winter room thermostats for operation of valves and dampers in reverse sequence for cooling and heating. *Insertion* and *immersion* thermostats in one, two, three, and four-point patterns for operating valves and dampers successively at different temperatures.

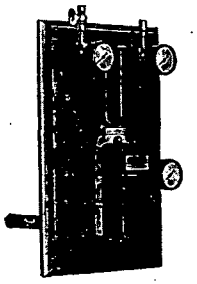
Remote readjustable thermostats, reset from a distant point by pilot or differential thermostat or by pressure switch. *Differential thermostats* to maintain desired temperature differences between two points, such as outdoors and treated space.

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

The *Johnson sensitivity adjustment* is an important development in the field of automatic temperature and humidity control for air conditioning. A unique and convenient means of adjusting the sensitivity of *Johnson* thermostats and humidostats *on the job,* with respect to the capacity of the conditioning apparatus.



Summer-Winter Thermostat



Remote Readjustable Thermostat

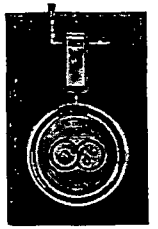
Zone Control

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.

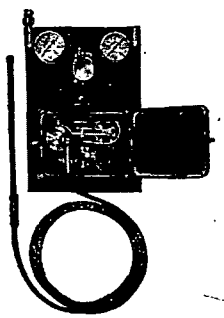
Process Control

Calibrated insertion thermostats for controlling temperature of liquids, air and gases. Mercury *extended tube thermostat* for remote location of sensitive element.

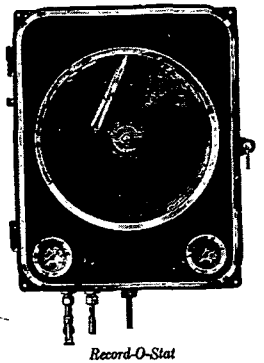
Wet-bulb thermostats for close regulation of humidity. "Record-O-Stats," combination instruments to record and control temperatures.



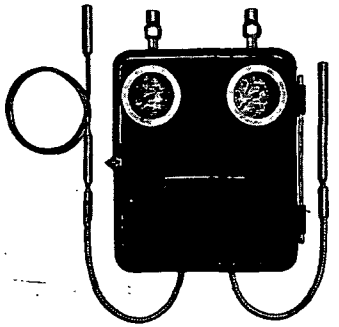
Program Clock



Mercury Extended Tube Thermostat



Record-O-Stat



Johnson "Duo-Stat"