ALCO VALVE CO.

851 Kingsland Avenue, St. Louis 5, Mo.

THERMOSTATIC EXPANSION VALVES . . . CONSTANT PRESSURE (AUTOMATIC) EXPANSION VALVES . . . REFRIGERANT DISTRIBUTORS . . . SOLENOID VALVES . . . SUCTION LINE REGULATORS . . . FLOODED EVAPORATOR CONTROLS . . . REVERSING VALVES . . . LIQUID AND SUCTION LINE STRAINERS.

SEE YOUR ALCO WHOLESALER

For capacities in excess of those listed, write us and give specific requirements

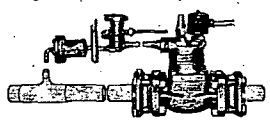
THE COMPLETE LINE OF REFRIGERANT CONTROLS

THERMO® EXPANSION VALVES

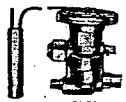
For automatic control of liquid refrigerant on all types of *refrigeration and air conditioning systems. Capacities: From fractional* tonnage to 200 tons Refrigerant 12 and 22, selective charges available. Low temperature valves for −40F to −100F.



TYPE 402 with or without pressure limiting feature



TYPE POS Valve—with integral solenoid stop valve—maintains sensitive control over wide ranges in load.



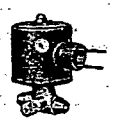
TYPE TCL With either angle or straight-thru connections



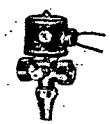
TYPE TR Multi-Outlet

SOLENOID VALVES

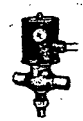
For all types of service. Liquid, up to 75 tons Refrigerant 12, 110 tons Refrigerant 22. Suction, up to 10 tons Refrigerant 12, 15 tons Refrigerant 22. For discharge gas, brine, water, steam, air or oil service.



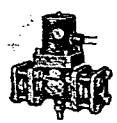
TYPE S1



TYPE S2



TYPE M3

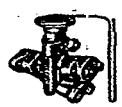


TYPE R2

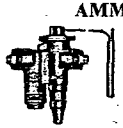
AMMONIA CONTROLS



TYPE M91F



TYPE TG



TYPE UG



TYPE TX



TYPE E with strainer

Solenoid Liquid Valves—up to 172 tons. **Solenoid Suction Valves**—up to 28 ton. **Thermo® Expansion Valves**—from fractional tonnage to 125 ton. **Automatic Expansion Valves**—from fractional tonnage to 60 ton.









VENTURI-FLO DISTRIBUTORS

Wide application range. One piece; replace distributors requiring as many as 6 or 7 nozzles.

FLOAT VALVES AND SWITCHES

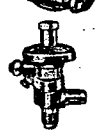
TYPE J56 electric floatswitch. For Refrigerant 12, 22, Methyl Chloride, Ammonia and other non-corrosive liquids *having a specific gravity of 0.6* or more. Up to 230 Volts, A.C or D.C.

TYPE HK HIGH PRESSURE FLOAT VALVE. Up to 5 tons Refrigerant 12, 8 tons Refrigerant 22 and 20 tons Ammonia.

908 LECTRO-LEVEL electronic remote control of liquid level. Accurate control *for full-flooded evaporators. Adjustable* to a wide range of level changes. Easy-to-set control dials conveniently mounted in remote box.







SUCTION LINE CONTROLS

TYPE 771–772 SUCTION PRESSURE REGULATORS

(Hold-Back Valves) Prevent motor overload. Refrigerant 12 and 22.

TYPE EPR EVAPORATOR PRESSURE REGULATORS

For all refrigerants, with connection sizes up to 6 in.

TYPE 760 "EVAPOTROL"

Pressure regulator—¼ ton, Refrigerant 12—¾ ton, Methyl Chloride.

BARBER-COLMAN COMPANY

1300 Rock Street, Rockford, Illinois

Field Offices in 95 Cities Throughout the United States and Canada — consult local phone book

A Complete Line of "Electronic" Controls

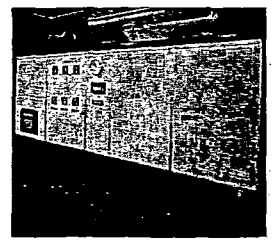
Barber-Colman manufactures a complete line of automatic temperature and humidity controls for commercial air conditioning, heating, ventilating, and industrial processing applications. Typical product lines are pictured on this page.

A nationwide sales and service organization offers experienced engineering assistance, qualified supervision of installation, and prompt, competent field maintenance assistance.

Only Barber-Colman offers you years of combined experience in both automatic controls and air distribution and assumes undivided responsibility for delivering ideal indoor weather. (See Barber-Colman page in the Air System Equipment Section.)

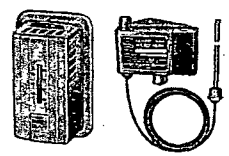
Product literature and application diagrams available at your nearest Barber-Colman field office, or write to address above. Please state your specific interest.

"Electronic" Control Centers



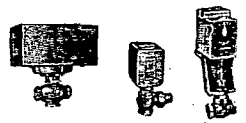
"Electronic" control centers provide visual supervision and remote readjustment of a building's entire air conditioning system and other mechanical and electrical systems from one central location. May include remote temperature indication and recording. Each "Electronic" control center is custom-designed to meet the specifications of *any commercial air conditioning or* process control system.
Ask for booklet — "Electronic" Control Centers.

Humidity Controls



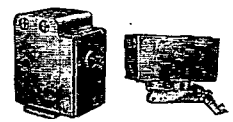
Electric single- and two-position room and remote bulb thermostats for two-position or proportional control. Electronic room, duct, immersion, and outdoor temperature sensing elements in both fixed and adjustable settings. *Hair element or electronic* humidity controls for two-position or proportional control of motor-operated valves, compressors, relays, etc.

Motor-Operated Valves
(Including transistorized type)



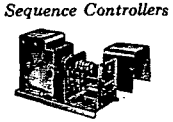
Single- or double-seated valves for on-off or *modulating control of steam, air,* and water, and three-way valves for bypass or mixing applications.
The complete line of compact motor operators includes two-position and proportional control models, as well as a transistorized electronic type for proportional control.

Motor Operators for Dampers, Air Valves
(Including transistorized type)



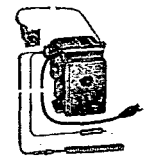
Oil-submerged electric spring return, unidirectional, reversible, multiposition and proportional motor operators for positioning dampers, air valves, etc. Adjustable speed optional. Also a transistorized electronic proportional model now available.

Sequence Controllers



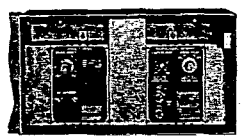
Sequence controllers, consisting of a reversible oil-submerged driving motor to operate from two to six snap-acting switches, are available for multistep control of compressors, pumps, valves, or relays in refrigeration, air conditioning, or industrial processing applications.

Unit Ventilator Controls



A complete line of controls for all types of unit ventilators, including face and bypass, valve-controlled, electrically heated, and direct gas-fired classroom or auditorium types. "Package" sets are featured, designed for mounting entirely within the unit ventilator enclosure. These sets utilize a dual-*element thermostat combined* with a motor operator for extremely accurate control of room and discharge air temperatures without the need for wall-mounted room thermostats.

Modular Electronic Controls



These controls translate temperature or humidity changes into voltage outputs *which are amplified* to operate relays. The relays, in turn, operate valves, motor operators, or other control devices.
Complete custom control panels to meet any requirement are built up of one or more standard bridge circuit modules and one or more standard amplifier modules.
Temperature bridges *provide for* use of one, two, or three standard sensing elements. Auxiliary bridge circuit modules are available to operate as many as three amplifiers in sequence. Either two-position or proportional amplifiers are available.
Dual compensator units, used with an amplifier module or combination of amplifier and bridge components, provide control for such applications as: outdoor reset of main element, stabilization of discharge temperature, differential thermostat action, and lag element control.

Accessories

The Barber-Colman accessory line includes power boxes, transformers, color-coded thermostat cable, relays, switches, electric time switches, manual rheostats, polarized microrelays, and other items which go to make up a complete control system.