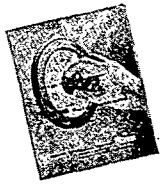
ILLINOIS ENGINEERING COMPANY

2059 SOUTH RACINE AVENUE • CHICAGO 8, ILLINOIS

DIVISION OF AMERICAN AIR FILTER COMPANY, INC.

STEAM HEATING SYSTEMS • CONTROLS • STEAM AND POWER SPECIALTIES



ILLINOIS HEATING SYSTEMS, with or without control, are offered in five types and cover the complete range of vacuum and vapor heating requirements.

ILLINOIS SELECTOTHERM CONTROL SYSTEM—A high vacuum steam heating system with single dial control that provides comfort, economy and convenience. For buildings of any size where boilers are mechanically fired and used for low pressure steam heating only.

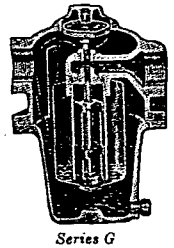
CONTINUOUS FLOW CONTROL SYSTEMS—Type A—For zoned installations or where steam is used for other than heating and domestic hot water service, or where steam is supplied by Central Station Service. Furnished for pneumatic or manual operation.

CYCLING FLOW CONTROL SYSTEMS—Type R—For automatic or manual control of steam flow and pressures in vacuum systems and one-pipe or two-pipe gravity installations.

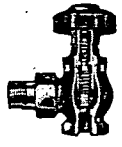
VACUUM SYSTEMS—A two-pipe steam circulating system in which a standard vacuum pump is used. For any type of building, industrial plants, or for groups of buildings heated from a central plant.

VAPOR SYSTEMS—A two-pipe system circulating steam at low positive pressures without pump or mechanical vacuum producer. Recommended for Residence, Small Apartment, and similar service.

ILLINOIS STEAM SPECIALTIES



Series G



Float and Thermostatic Traps Series G
For Low Pressure Service
Compact, simple, accessible, durable, dirt-proof. Positive valve action. Wire drawing impossible. Low discharge temperatures. Efficient air venting. Trap not damaged by freezing.

Recommended Applications

For draining Low Pressure Heating Systems, Ventilating Units, Unit Heaters, Pre-Heaters, Re-Heaters, and other Fan System Heat Surface, Process Heaters, Hot Water Generators, Drips of Mains and Risers.
Series G operating ranges from 25 inches vacuum to 15 lbs pressure.

Illinois Radiator Supply Valves
Quick Opening, Spring Loaded, Packless. For any two-pipe steam, vapor or vacuum heating system.
Extremely smooth and easy to operate with a cool, break-proof plastic handle for finger tip control.

Illinois Thermostatic Trap Series G



For Vacuum and Vapor Heating Systems—
For Working Pressures Up to 15 Pounds
Positive acting and responsive to the slightest temperature changes, it discharges condensate quickly and freely without loss of live steam.

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STEAM TRAPS—A special feature is the impact operated valve with snap action. The valve is either open or shut. It cannot remain in an intermediate position. Wire drawing, scoring or cutting of valve and valve seat are positively eliminated. The valve cannot chatter on the seat under any operating condition. Sizes from ½ in. to 2 in. Pressures from 5 psi to 250 psi and heavy duty to 600 psi.

ILLINOIS MOTORIZED VALVES (on and off)—Type R5—For automatic control of steam temperatures and pressures to prevent overheating and conserve steam. May be operated by any automatic contact device or by manual switches.

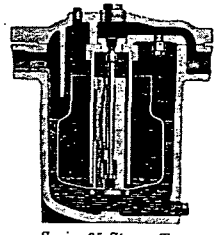
ILLINOIS THERMOSTATIC TRAPS FOR HIGH PRESSURES—Series HG—Maximum working pressure 150 pounds. Used where neat appearance and compactness are desirable, as for trapping sterilizers or water stills in hospitals; steam jacketed kettles, coffee urns, warming tables and for process work.
These traps are also furnished for medium pressures.

ILLINOIS CONDENSATION PUMPS—The complete line includes both horizontal and vertical, Single and Duplex Units. *Illinois Type "ECR" Pump.* Capacities, 2,000 to 65,000 sq ft edr. Discharge pressures to 50 psi. Bronze fitted throughout. Dependable mechanical seal eliminates leakage around shaft. Heavy duty float control with seamless copper float. Float switch adjustable for various levels. No sub-base required. Cast iron receiver.

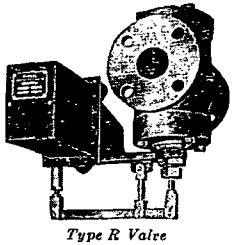
ILLINOIS ASU HEAT EXCHANGERS—For heating water with steam. Complete range of sizes and capacities.

Other Illinois Products

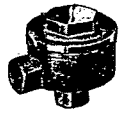
Air Vent Traps
Boiler Return Traps
Strainers
Control Valves: Non-Return, Back Pressure, Stop and Check
Exhaust Heads
Suction Strainers
Separators—Oil and Steam
Pressure Regulating Valves



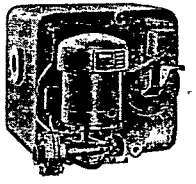
Series 55 Steam Trap



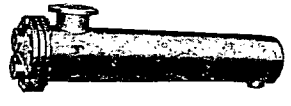
Type R Valve



Series HG Trap



Type "ECR" Close Coupled Pump



ASU Heat Exchanger