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 SYSTEMS—A high vacuum steam heating system with a single dial control that assures excellent comfort, economy and convenience. For commercial and public buildings of any size where boilers are mechanically fired and used for low pressure steam heating only.

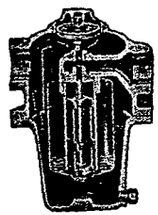
CONTINUOUS FLOW CONTROL SYSTEMS—Type A—For zoned installations or where steam is used for other than heating and domestic hot water service, or where steam is supplied by Central Station Service. Illinois Flow Control Valves of the full floating type give complete and accurate regulation of steam flow. 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.

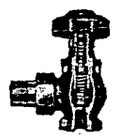
VACUUM SYSTEMS—A two-pipe steam circulating system in which a standard vacuum pump is used. Suitable for any type of building, for industrial plants, or for groups of buildings heated from a central plant.

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. Gives rapid, flexible steam circulation.

ILLINOIS STEAM SPECIALTIES



Series G



Illinois Radiator Supply Valves

Quick Opening, Spring Loaded, Packless. For any two-pipe steam, vapor or vacuum heating system. They cannot stick, bind, or chatter and are steam tight for the full range of heating system pressures.

Extremely smooth and easy to operate with a cool, break-proof plastic handle for finger tip control.

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 Thermostatic Trap Series G



For Vacuum and Vapor Heating Systems—

For Working Pressures Up to 15 Pounds Assures high efficiency over a wide temperature and capacity range without progressive increase in return line temperature. Positive acting and responsive to the slightest temperature changes, it discharges condensate quickly and freely without loss of live steam.

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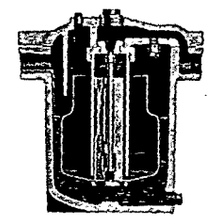
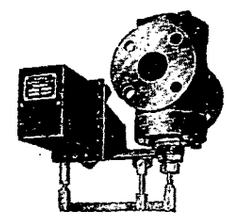
STEAM TRAPS—A special feature in ILLINOIS traps is the impact operated valve with snap action. The valve is either wide open or tight shut. It cannot remain in an intermediate position. Wire drawing, scoring or cutting of valve and valve seat positively are eliminated. The valve cannot chatter on the 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.



Series 85

ILLINOIS MOTORIZED VALVES (on and off)—Type R5—For automatic control of steam temperatures and pressures to prevent overheating and conserve steam; to control fluid levels; and to regulate flow in hot water heating systems. May be operated by any automatic contact device or by manual switches.

Furnished in three types.



Type R

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. Also used for air vents on blast type drying heaters. Diaphragm of phosphor bronze. Heavy duty bronze body. Made in three sizes.

These traps are also furnished for medium pressures.



Series HG

FOR ADDITIONAL INFORMATION SEND FOR THESE BULLETINS

Vapor and Vacuum Steam Heating Specialties:
- Thermostatic Traps
- Air Vent Traps
- Strainers
- Boiler Return Traps
- Radiator Valves—Packless Type

Float and Thermostatic Traps

Steam Traps

Control Valves: Non-Return Back Pressure Stop and Check

Exhaust Heads

Suction Strainers

Separators—Oil and Steam

Pressure Regulating Valves

Condensed Catalog—Heating Systems and Controls