

ILLINOIS ENGINEERING COMPANY

General Offices
and Factory:

Chicago 8, Ill.



Representatives
In Principal Cities

ILLINOIS HEATING SYSTEMS

ILLINOIS HEATING SYSTEMS, with or without control, in five general types, cover the complete range of vacuum and vapor heating requirements; each admits of modification to meet any special condition in either. These systems include: **GENERATION Control Systems—Type C**

For independent boiler installations affording maximum fuel economy.

CONTINUOUS FLOW Control Systems—Types A & M

For installations which require zoned control, or where steam is used for other than heating and domestic hot water service, or where steam is supplied by Central Station Service, Pneumatic or manual operation.

CYCLING FLOW Control Systems—Type E

For automatic or manual control of steam flow and pressures not only in vacuum systems but in one-pipe or two-pipe gravity installations as well.

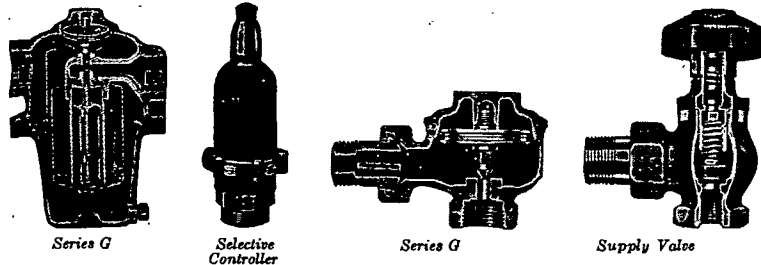
VACUUM SYSTEMS

A two-pipe steam circulating system in which a standard vacuum pump is used to accelerate circulation, remove air and condensate from the system and return the condensate to the boiler.

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 any pump or mechanical vacuum producer. Recommended for Residence, Small Apartment, and similar service. Gives rapid, flexible steam circulation.



Illinois Float and Thermostatic Traps—Unsurpassed for draining ventilating units, unit heaters, and for dripping mains and risers—wherever it is desirable quickly to vent air from the main as well as handle the water of condensation in quantity, whether hot or cold.

Illinois Selective Pressure Control Systems—An entirely new and unique method of Steam Circulation Control . . . Heating Systems that set new standards in comfort, economy, simplicity and convenience of operation. Each system individually engineered to meet exact requirements. Recorded fuel savings, without sacrifice of comfort, warrant your investigation.

Illinois Radiator Supply Valve—Quick-opening, packless. Steam tight on 50 lb pressure. Large diameter of thread spool and machine cut threads make valve operation easy. Furnished in a complete line of sizes and patterns.

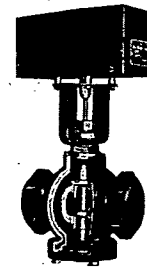
Illinois Thermo Radiator Traps—Illinois Thermo Radiator Traps for vacuum, vapor and low pressure heating systems. Has cone type valve. Flushes thoroughly and seats perfectly at all times. Valve and seat are of hardened steel alloy. The duplex diaphragm is of special phosphor bronze. Scientific design and rugged construction assure flexibility and long life.

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Type E3



Fig. 121



Fig. 260



Series HG

Illinois Motorized Valves (on and off)—Type E3—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.

Pressure Regulating Valve, Semi-Steel Bodies, Bronze Trim—Fig. 121—Furnished in either single seat or double seat type as service requires, for the control of steam, air or gas. Control spring is completely enclosed, protecting it from dirt and rust. Valves are furnished with proper size diaphragm and proper length spring to give satisfactory service under all operating conditions. Furnished also in weight loaded type, Fig. 71.

Non-return Valves—Fig. 260—Placed between boiler and header to prevent return of steam to boiler. Sensitive in operation. Extra heavy semi-steel bodies with bronze trim for 250 lbs steam working pressure. Bronze dash pot and water sealed pistons prevent valve sticking. Globe and angle patterns from 4 in. to 12 in.

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 extensively for air vents on blast type drying heaters. Multi-diaphragm of phosphor bronze. Heavy duty bronze body. Made in three sizes.

These traps are also furnished for medium pressures.

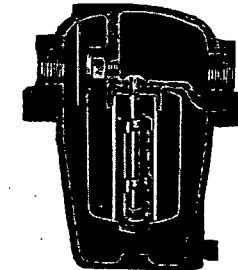
Steam and Oil Separators—Vertical Steam Separators—Eclipse steam separators are made in both horizontal and vertical type, standard or extra heavy.

Eclipse oil separators are furnished in the horizontal type and have a removable baffle plate to facilitate cleaning of baffle and keeping the separator's efficiency the highest point.

Illinois Steam Trap—Series 30—Valve and stem are separate from the bucket and operated only by the bucket at extreme top and bottom of travel—result—valve is always either full open or tight closed. Provided with continuous thermostatic air vent. No wire drawing or cutting of valve and seat which are of hardened steel alloy.



Vertical Steam Separators



Series 30