

Kainer & Company

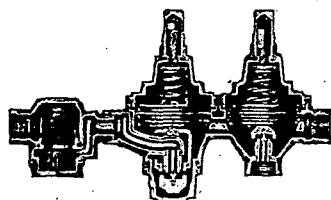
761-771 Mather Street, Chicago, Ill.

KAINER SPECIALTIES

For Hot Water Heating Systems

Entirely Automatic Heat Control

Any ordinary gravity hot water job, old or new, equipped with the Kainer Pressure Governor, Kainer Syphon Hot Water Damper Regulator, and Kainer Pressure Gauge, gives an entirely automatic and fully closed system that maintains uniform room temperatures by controlling the water temperature, effects marked fuel economy and lengthens the interval between firing periods.



The Kainer Pressure Governor

The Kainer Pressure Governor is a simple, safe and accurate device for pressure reducing and relief service on any hot water heating system, old or new. It is comprised of two automatic valve units (cast integral) and a filter. One valve unit reduces and governs the water supply; the other valve unit relieves the heating system when excessive pressure due to expansion develops.

Full flow opening in the reducing unit permits very quick filling of the system when first installed.

The Kainer Bellows Diaphragm is used on both valve units. It contains no material requiring service or replacement.

The entire governor is of cast or phosphor bronze—rust-proof, scale-proof and trouble-proof. It can be instantly disassembled for inspection.

The Governor is tested at 60 lb. pressure and set at the factory to maintain 10 lb. on the system and to relieve the system when the pressure due to expansion reaches 30 lb.

List price Kainer Pressure Governor, complete with instructions for mounting \$24.00

The Kainer Pressure Relief Valve

Furnished in two models. For use on domestic range boilers and Hot Water Heating Systems. Model A is factory adjusted to operate at 30 lb. pressure.

Model B is furnished to relieve at pressures of 50, 75, 100 and 130 lb. to your specifications.

List Price, either model, \$7.50.



The Kainer Pressure Reducing Valve

Used principally on old or new hot water systems consisting of tank and relief valve only. Installing the Kainer Pressure Reducing Valve makes the system fully automatic.

The Kainer Pressure Reducing Valve can also be installed with a Kainer Relief Valve and filter thereby making a manually filled system entirely automatic.

List Price, \$12.00



The Kainer Filter

We strongly recommend the use of this filter when installing our reducing and relief valves.

The rugged filter screen of perforated copper strains the water and prevents particles of rust, dirt and scale from fouling valve seats, insuring continuous trouble-free operation.

List Price, \$3.00



The Kainer Syphon Regulator

Furnished complete with trimmings. When ordering ask for Kainer Syphon Damper Regulator 46-WK. List Price, \$16.00



The Kainer Pressure Gauge

3½ in. dial calibrated to 60 lb. White enamel finish. List Price, \$2.50



H. A. Thrush & Company

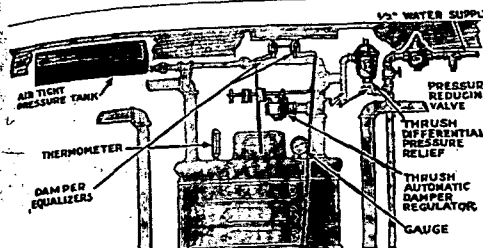
Thrush Differential Pressure Relief

Automatic Dual Control Unit

Makers of Thrush Systems Factory and Offices Peru, Ind.

Thrush Electric Water Circulator

Thrush Automatic Damper Regulator



Thrush System comprises equipment to be added to any unregulated gravity Hot Water Heating plant to make it a "Closed System" operating under additional pressure and with automatic control of dampers. It increases heat transmission and reduces fuel consumption. It is made in four types as listed below.

DATA and SPECIFICATIONS

Class AA Equipment consists of Thrush Differential Pressure Relief Valve, Automatic Temperature Damper Regulator, Pressure Reducing Valve, Copper Bearing Steel Pressure Tank and special Gauge and Thermometer. It is automatic filling.

Class A Equipment

This is the same as Class AA Equipment except that it has no Pressure Reducing Valve for automatic filling.

Class BB Equipment

Consists of Thrush Differential Pressure Relief, Pressure Reducing Valve, Copper Bearing Steel Pressure Tank and Special Gauge and Thermometer.

Reducing Valve, Copper Bearing Steel Pressure Tank and special Gauge and Thermometer. It is automatic filling.

Class B Equipment

Same as above except that it does not have Pressure Reducing Valve for automatic filling.

Sizes

Size No. 0 up to 350 sq. ft. of radiation
Size No. 1 up to 700 sq. ft. of radiation
Size No. 2 up to 1200 sq. ft. of radiation
Size No. 3 up to 2000 sq. ft. of radiation

Automatic Dual Control Unit

An inexpensive heating system for competitive job. The Automatic Dual Control Unit may be used for small to medium sized hot water heating plants, easily and economically, by merely installing the Dual Control Unit in the water supply line. Furnished with strainer.

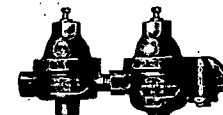


Fig. 2

Thrush Differential Pressure Relief



Fig. 3

This valve is designed with large valve area and has a capacity for relieving excess pressure for both large and small installations. The valve seat is submerged in water, so designed that corrosion or sediment accumulation is prevented. It is always Safe. (Tapping ¾ in.)

Thrush Electric Circulator

Here is a method of assuring positive circulation on any Hot Water Heating job. The Thrush Electric Circulator will pay for itself in less than one season in fuel saving.

Highly recommended for oil and gas fired boilers, also for greenhouses, garages, apartments, store buildings, works perfectly with blower units. Cheaper to install than low pressure steam, vapor or vacuum vapor jobs. 110 or 220 A.C. 60 cycle motor for light or power line. Low operating cost. Any type motor shipped from stock.

Tapping	Gallons Capacity	Radiation Capacity	Price
No. 1½—1½ inch	15 per minute	1000 sq. ft.	\$ 90.00
No. 2—2 inch	30 per minute	2500 sq. ft.	131.25
No. 3—3 inch	70 per minute	6000 sq. ft.	150.00

Thrush Automatic Temperature Damper Regulator

The operation of this Regulator depends upon the temperature change of the water circulating through the heating system and not upon pressure. Easily installed and very efficient. (Tapping 1½ in.)

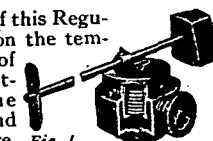


Fig. 4

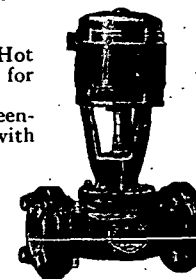


Fig. 5