

## Vapor Engineering Company

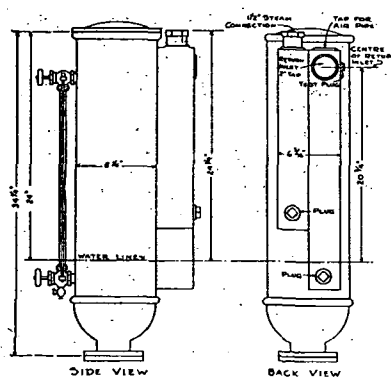
489 Fifth Avenue  
New York City  
Chas. E. Scott—R. C. Willis

10 South 18th Street  
Philadelphia, Pa.  
J. W. Glassey—M. S. Buck

### VECO VAPOR SPECIALTIES

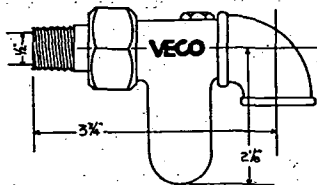
Non Mechanical and Positive in Operation

Engineers for the design of "open-to-atmosphere" vapor heating systems for factory, public and residential buildings, regardless of size, construction or location. Veco Vapor specialties are the result of 21 years of specialization in vapor heating work



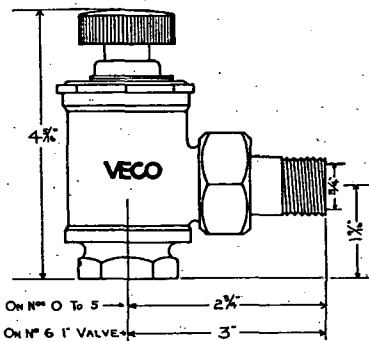
VECO GOVERNOR

Combining, Safety Valve, Air Eliminator and positive control of Boiler draft, Gas supply valve, or Oil Burner



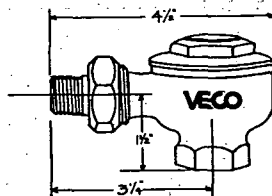
VECO RETURN SEAL

No moving parts. For all standard vapor work



VECO SUPPLY VALVE

Packless, Leakless, Graduated.  
3/4 in. Nos. 0 to 6 up to 133 sq. ft. inclusive.  
1 in. No. 6 up to 140 to 160 sq. ft. inclusive.



VECO THERMOSTATIC TRAP

For Central Plant work, Ventilating Units, etc.

Full cooperation is offered to Architects, Engineers and Contractors in the planning of Veco Systems which are fully Guaranteed as to material—and satisfactory operation.

ESTABLISHED 1888

## WARREN WEBSTER & COMPANY

Pioneers of the Vacuum System of Steam Heating  
Camden, N. J.  
Branches in over 50 Cities

Manufacturers of Webster Systems of Steam Heating and Webster System Equipment—More Than 46,000 Installations—Webster Series '78' Traps for "Process" Steam Pressures—Steam and Oil Separators and Expansion Joints

### Webster Products

WEBSTER VACUUM AND TYPE "R" SYSTEMS OF STEAM HEATING.

WEBSTER SYSTEM APPARATUS: Including Siphon Traps; Diaphragm (No. 7) Traps; Modulation Supply Valves; Siphon Quick-Opening Packless Valves; Dirt Strainers; Dirt Pockets; Drip Traps; Heavy-Duty Traps; Double Service Valves; Water Accumulators; Expansion Joints; Lift Fittings; Suction Strainers; Vacuum Governors; Hy-lo Traps and Controllers; Damper Regulators; Vent Traps and Vent Valves; Boiler Return Traps; Air Separating Tanks.

Steam and Oil Separators.

WEBSTER SERIES '78' TRAPS for "Process" steam pressures (10 to 100 lb. per sq. in.).

### Webster Service

—delivered through more than 50 Branch Offices, places at the disposal of engineers, architects, and heating contractors accurate, comprehensive information resulting from the extensive experience of this organization.

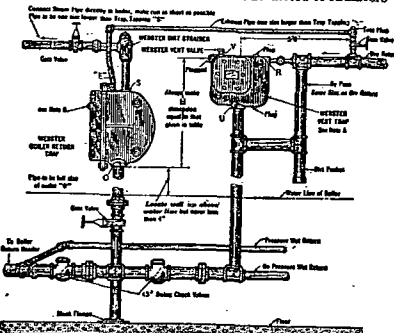
### Webster Vacuum Systems

—are particularly suited to large buildings, or where "process" steam is used and the exhaust utilized for either direct radiation, or in combination with blast coils or unit heaters... operating on either low-pressure live steam or exhaust steam, or a combination of both.

### Webster Type "R" System

A two-pipe, open return line, low pressure steam heating system adaptable to almost every type of building, except the very largest, where Webster Vacuum Systems are used. For installations from 500 to 32,000 sq. ft. of direct radiation. The only limitation is the necessity for a basement or other depression so that the boiler may be placed with its water line below the level of water of condensation flowing back to it. The combination of the Webster Boiler Return Trap and Webster Vent Trap incorporated in this system provides maximum safety with open return line simplicity.

OPERATION: Pressure at the boiler is kept uniform by the Webster Damper Regulator. Steam is admitted to radiators



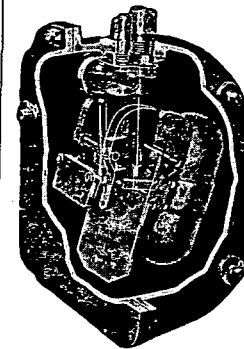
Conventional Arrangement of Piping Around Webster Boiler Return Trap, Sizes 023 to 323, in the Webster Type "R" System of Steam Heating

by Webster Modulation Valves or Webster Siphon Valves. Condensation and air are completely discharged through Webster Return Traps which insure absolute silence and prevent waste. Air and condensation are carried to Webster Basement Equipment consisting of the Webster Boiler Return Trap and Vent Trap in combination. Air escapes through the Webster Vent Valve. The Webster Boiler Return Trap returns water to boiler whenever pressure exceeds a few ounces.

TABLE I. Webster Type "R" System Basement Equipment

| Size of Boiler Return Trap | Rating, Sq. Ft. Direct Radiation | Number of 1/2-in. Vent Valves | Size of Vent Trap |
|----------------------------|----------------------------------|-------------------------------|-------------------|
| 0023                       | 1500                             | 1                             | 0023              |
| 023                        | 2500                             | 1                             | 023               |
| 123                        | 4000                             | 1                             | 123               |
| 223                        | 8000                             | 2                             | 223               |
| 323                        | 16,000                           | 3                             | 323               |

For installations over 16,000 sq. ft., two Boiler Return Traps and a Duplex Vent Trap are used. See Webster Service Details.



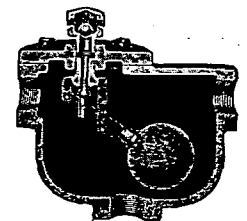
Webster Boiler Return Traps

A positive trap which insures return of water to the boiler. A float-controlled valve admits steam from boiler to equalize pressures in trap and boiler. As waterline of trap is above that of boiler, water flows by gravity to boiler. Float closes valve when trap empties.

Webster Boiler Return Trap

### Webster Vent Traps

Contains a ball vent valve which permits escape of air but prevents its return. Makes possible operation for hours at a time at less than atmospheric pressure.



Webster Vent Trap