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Trane Bulletins give complete data on Trane Products and will gladly be sent on request

TRANE HEATING EQUIPMENT

EXTENDED SURFACE HEATING—Bulletin No. 152. Construction. Typical examples. Performance tables. Installation diagrams. Capacities.

COPPER CONVECTORS—Bulletin No. 110 and Data. Complete explanation of instant control and convected heat. Installation details. Roughing-in dimensions. Heating capacities in equivalent direct radiation and Btu.

UNIT VENTILATORS—Bulletin No. 65 and Data. Air-O-Lizer for classroom—Air-O-Vent for large spaces. Explanation of Trane System of Schoolroom Air Conditioning. Air-O-Lizer and Air-O-Vent control cycles. Auxiliary units. Complete capacities and roughing-in dimensions.

UNIT HEATERS—Propeller Models—Cradle Coil and De Luxe Units. Bulletin No. 85. Blower Models—Heat Blowers and Torridor. Bulletin No. 75. Explanation of Floor Line Spread and Cradle Coil. Installation suggestions. Performance data. Capacities (hot water and steam). Roughing-in dimensions.

HEATING SPECIALTIES—Complete information on Heating Specialties for every steam or hot water system. Construction. Operation. Capacities. Dimensions.

TEMPERATURE CONTROL VALVE—Bulletin. Applications. Operation. Construction. Dimensions.

HUMIDIFIER—Bulletin No. 125. Complete capacities for heating and humidification. Roughing-in dimensions.

PUMPS—Bulletin No. 33. Circulating and Booster Pumps. Condensation Pumps. Capacities. Installation instructions. Dimensions. Construction.

TRANE AIR CONDITIONING EQUIPMENT

EXTENDED SURFACE COOLING COILS—Direct Expansion Coils Bulletin No. 172—Water Cooling Coils Bulletin No. 182. Types E & C. Typical examples. Performance data. Sizes. Capacities.

COMMERCIAL AIR CONDITIONERS—Bulletin and Data. De Luxe Models. Large Capacity Models. Office Models. Applications. Capacities. Structural features. Roughing-in dimensions. Selection of units.

RESIDENTIAL AIR CONDITIONERS—Five Complete Systems for Heating and Air Conditioning in the Home—Bulletin. Climate Changer for steam or hot water—Bulletin No. 230. Airite for direct fired oil heating—Bulletin No. 227. Operation. Construction. Capacities. Roughing-in dimensions.

PRODUCT COOLERS—Bulletin No. 25. Applications. Capacities. Dimensions.

CONDENSERS—EV Condenser Bulletin No. 42. Construction. Operation. Dimensions. Capacities. EVR Condenser for railroads. Bulletin and Supplementary Manual No. 307R. Operation. Construction.

A Complete Line of Heating, Ventilating and Air Conditioning Equipment

Extended Surface Heating and Cooling Coils.	Airite.	Thermostatic Bellows Traps.
De Luxe Air Conditioners.	Climate Changer.	Packless Valves.
Commercial Air Conditioners.	Copper Convectors.	Vent Traps.
Propeller Type Coolers.	Humidifiers.	Boiler Specialties.
Evaporative Condensers.	Propeller Unit Heaters.	Float Traps.
	Blower Unit Heaters.	Temperature Control Valves.

WARREN WEBSTER & COMPANY

Pioneers of the Vacuum System of Steam Heating

Webster Systems of Steam Heating since 1888

Main Office and Factory:

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WEBSTER MODERATOR CONTROL "Control by the weather"

PRODUCTS AND SERVICES

Improved Webster Systems of Steam Heating including Vacuum and Type "R" (vapor).

Webster Central Control Systems including HYLO and MODERATOR.

Modernization of Obsolete and Faulty Heating Systems.

Webster System Equipment including Light-Weight Concealed Radiation (Gravity Convection Heaters), Radiator Supply Valves, Metering Orifices, Thermostatic Traps, Drip Traps, Heavy Duty Traps, Dirt Strainers, Dirt Pockets, Boiler Return Traps, Vent Traps, Damper Regulators, Boiler Protectors, Lift Fittings, Expansion Joints, Separating Tanks, Steam and Oil Separators, Steam Vacuum Pump Governors, Air Separating and Receiving Tanks, Gages, Water Accumulators.

Webster Series "78" and Series "79" Traps for use at process pressures (10 to 125 lb. per sq. in.)

IMPROVED WEBSTER SYSTEMS

The Improved Webster Systems are low pressure, two-pipe systems of steam circulation *with the addition* of accurately-sized metering orifices at radiator supply connections and, when required, intermediate metering orifices at points in branch mains. Metering orifices effect even distribution of steam to all parts of the heating system and permit the successful application of a centralized control. Improved Webster Systems are available for vacuum, open return or "vapor" operation. The Type "R" System corresponds to the so-called Vapor type. Fig. 1 illustrates a typical arrangement of Boiler Return Trap, Vent Trap, etc., when low pressure boiler is the source of steam.

CENTRAL CONTROL SYSTEMS

These are patented systems for varying the amount of steam to all radiators according to outside temperature. They provide *continuous heat delivery* with effective *fractional filling of radiators*. The Hylo Systems may be provided for manual control, or if desired, may be semi-automatic by incorporation of inside thermostat or thermostat and schedule clock. The Moderator Systems employ an automatic Outdoor Thermostat supplemented by a manual Variator.

The latter is used for quick heating-up, night load, and unusual weather or occupancy conditions. Use of Webster Central Control Systems results in (1) increased comfort because over-heating and underheating are minimized and (2) lower fuel or steam costs.

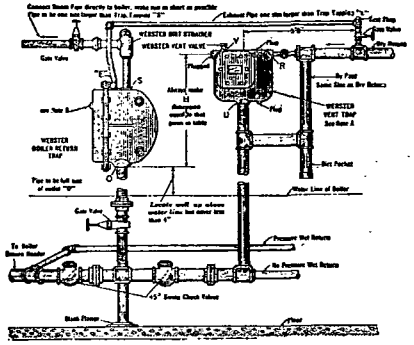

Fig. 1. Conventional arrangement of piping around Webster Basement Equipment for the Webster Type "R" System

WEBSTER SYSTEM RADIATION

Concealed, non-ferrous type for use exclusively with Improved Webster Systems. Is unique in that it combines *in a single unit*, a light-weight heating element of high efficiency with an orificed radiator supply valve, a radiator trap and supply

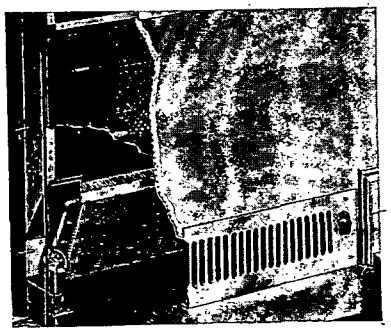

Fig 2. Webster System Radiation