

STEAM HEATING AND PROCESS SPECIALTIES

Radiator Valves—Choice of spring retained packing, Type BW-P or Sylphon Bellows Packless Series 600-S. $\frac{1}{2}$ in., $\frac{3}{4}$ in., 1 in., $1\frac{1}{2}$ in. sizes. In angle, right and left hand; straightway, with single or double union. Spring retained packing. For low pressure vapor and vacuum steam heating service.

Double Service Valve— $\frac{3}{4}$ in. and 1 in. sizes. Incorporates Webster Thermostatic Trap and Webster Radiator Supply Valve in a single compact unit. Drips down-feed riser and serves as supply valve to radiator or convector. Saves six fittings and installation work.

Thermostatic Traps—Series "7" (diaphragm type) and Series "5" (bellows type) for radiators and drips. $\frac{1}{2}$ in., $\frac{3}{4}$ in. and 1 in. sizes. There are six body models for the $\frac{1}{2}$ in. size alone. Maximum pressure, 25 lbs per sq in. For low pressure vapor and vacuum steam heating service. Series "78" for process. $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in. and 1 in. sizes. Class 2 for pressures of 60 to 150 lbs. Used to discharge air and water from heating coils of any apparatus using steam at process pressures.

Heavy Duty or Drip Traps—Series "26" Float-and-Thermostatic for heating and air conditioning. Most used sizes: 00026, 0026, 026. Pressures up to 15 lbs per sq in. Made for the pressure and capacity conditions encountered at all drip points. Series "79" Float-and-Thermostatic for process. For pressures up to 150 lbs per sq in. For use where large volumes of hot condensate must be handled more quickly than is possible by thermostatic traps alone.

RADIATION AND HEATING SURFACE

Webster System Convector Radiation—Non-ferrous convector radiation. Each Webster System Radiator includes a complete enclosure of furniture steel with baked prime coat. Contained within the enclosure is a prefabricated unit, combining heating surface, valve, trap and union connections, shipped ready to connect to supply and return piping.

Webster System Radiation was first offered in 1932. From its introduction until withdrawal from the market because of war conditions, more than 1,000 installations were made.

Now, available in an improved design, using the same basic material, copper tubing and aluminum fins. Increased

Dirt Strainers— $\frac{1}{2}$ in. to 6 in. sizes. Maximum working pressure 150 lbs per sq in. Placed ahead of traps in return lines of steam-using equipment and steam heating systems to catch dirt and other particles, preventing them from impairing the tightness of the traps.

Boiler Protectors—One size, with $\frac{3}{4}$ in. connections with or without electrical cut-out switch. Maximum pressure 15 lbs per sq in. Maximum cold water main pressure, 150 lbs per sq in., minimum not less than 25 lbs per sq in. Prevents breakage in low pressure heating boilers when the water level becomes inadequate.

Vacuum Pump Governors—In sizes $\frac{3}{4}$ in. to 3 in. Standard valve furnished for pressures up to 150 lbs per sq in. Special valve available for higher pressures. Govern flow of steam to steam-driven vacuum pumps.

Suction Strainers—Maximum working pressures 15 lbs per sq in. Installed ahead of vacuum pump to prevent dirt from damaging pump.

Vacuum Breakers—Sizes $\frac{3}{4}$ in., 1 in. and $1\frac{1}{4}$ in. adjustable on job. Size $\frac{1}{2}$ in. for radiators is factory adjusted. For automatic breaking of vacuum at predetermined setting in heating systems, feed water heaters, hot water generators, industrial pressure chambers, etc.

Expansion Joints—Crosshead or internally guided. In single slip and double slip models in most widely used pipe sizes. For pressures up to 200 lbs. per sq in. For steam, hot water, hot oil, hot gas, and condensate return lines.

rigidity of the tubing and the development of a new method of manufacturing has produced a fin surface of unusual rigidity, free of expansion and contraction noises.

Webster Type WI Extended Surface Radiation—Covered by patents and patents pending. Completely non-ferrous, being made up of specially annealed copper tubing with rib-reinforced, square pressed aluminum fins. Available in two fin sizes. 3 in. fin size in 2, 3, 4, 5, and 6 ft; 4 in. fin size in 2, 4, 6 and 8 ft lengths. Can be used to advantage in many buildings with steam or hot water heating, particularly where floor space or vertical wall space is limited.

WEBSTER-NESBITT UNIT HEATERS

Are manufactured by John J. Nesbitt, Inc., Philadelphia 36, Pa., and are distributed solely through Warren Webster & Company, Camden, New Jersey. Designed to circulate large volumes of air at comparatively low temperatures, assuring quick heating.

Ratings of Webster-Nesbitt Unit Heaters are based on tests made in accordance with standard test code of Industrial Unit Heater Association and A.S.H.V.E.

PROPELLER FAN UNIT HEATERS

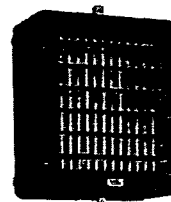


Fig. 1. Standard Propeller-Fan Type.

Designed to incorporate four characteristics essential to both proper application and satisfactory performance: 1.) *Selective range of sizes.* Manufactured in nine sizes. Heating capacities vary from 34,700 to 338,000 Btu per hour. Air deliveries from 470 to 4800 cfm. 2.) *Quiet Operation.* All fans have blades of exceptionally large areas and of a shape to impart a gradual acceleration to the air stream. Ample spacing is maintained between the fan and heating element. Motors are of sleeve bearing type and equipped with isolators. 3.) *Durable lightweight Heating Elements.* Extended fin-and-tube type, constructed of copper condensing tubes and plate-type aluminum fins. 4.) *Modern Casing Design.* Compact suspended type. W-N 126.

SERIES "R" UNIT HEATERS

A neat, furniture steel cabinet enclosing a copper tube, aluminum fin heating element adaptable for steam or forced hot water systems; and two to five centrifugal fans belt-driven from an electric motor. Universal design offering wide flexibility. Especially adaptable where low noise levels are desirable. Variable-pitched motor sheave permits low or high speed operation of fans. Available in four sizes. Air deliveries with standard drive range from 518 to 1890 cfm. Steam heating capacities range from 158 to 588 EDR. Send for Catalog W-N 133.

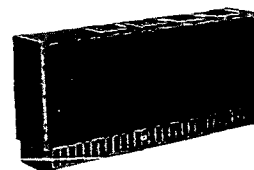


Fig. 2. Series "R" Unit Heater.

GIANT UNIT HEATERS



Fig. 3. Blower-Fan Type.

Sturdy blower-fan units for the economical heating of large areas. Standard (Non-Thermostat) type. Used principally where heating is by recirculation only, and where constant heat output is desired during period of operation.

Thermostat Type. Employs dampers in front of casing and over face of heating element to provide mixing of unheated and heated air, producing heat output in accordance with requirements and continuous circulation of air volume.

Valve Controlled Type. Unit is of standard casing arrangement but equipped with Nesbitt Heating Surface and Steam-distributing Tubes which allows for automatic control of heat output.

Floor mounted, wall mounted, ceiling suspended, from 101,000 Btu, 2580 cfm, to 1,008,000 Btu, 17,800 cfm. Pub. W-N 128.

LITTLE GIANT UNIT HEATERS

Adaptable to a wide variety of applications and field conditions. Seven basic sizes, each with a choice of two (some units three) heating elements.

The three smaller sizes are of the blow-through type, having lower outlet velocities generally intended for the lower mounting heights of commercial installations. These sizes are made in down-blow type only. The four larger models are of the draw-through type, and produce the high discharge velocities necessary to blow long distances. These four models are available in either horizontal or vertical down-blow arrangements.

Non-ferrous all-purpose heating elements designed for steam pressure up to 200 lb. gauge, saturated, and sturdy casings of modern design. Heating capacities range from 28,500 to 348,000 Btu basic steam ratings. Send for publication W-N 134.



Fig. 4. Down-Blow Type.