

AMERICAN RADIATOR COMPANY

DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

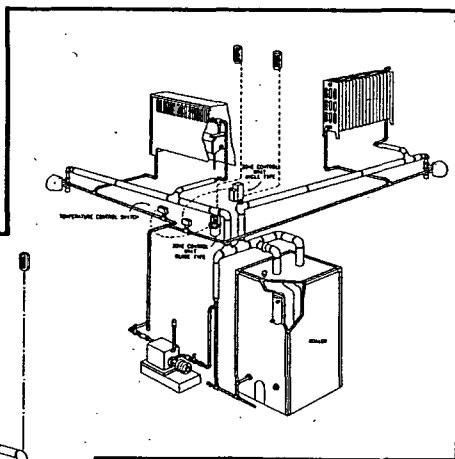
40 West 40th Street, New York, N. Y.

CONTROLLED WARMTH SYSTEMS

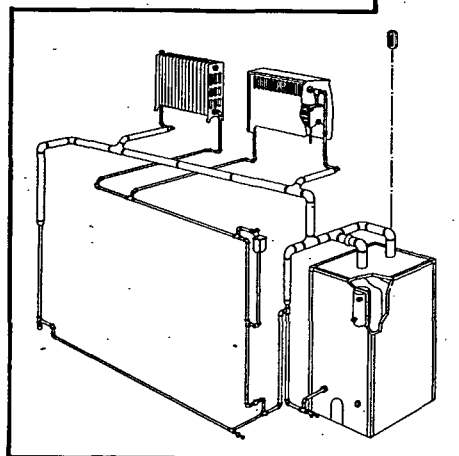
The Arco Model K Vapor-Orifice System is an engineered and coordinated unit which operates to insure equal distribution of warmth. On each radiator there is installed a special inlet valve with an adjustable orifice, by means of which flow of steam to each radiator can be accurately calibrated in accordance with the capacity of the radiator. The adjustment can be made while the system is in operation.

Pressure is so controlled that no more steam is admitted to the radiators than they are capable of condensing. Therefore no thermostatic traps are required on the return connections of the radiators. A ther-

When a zone system is used, the zone valves prevent the self-equalizing action and it is necessary to install an Arco Condensation Pump to insure the return of condensate to the boiler.



Schematic Piping
Arrangement of Zoned Model K System



Schematic Piping
Arrangement of Simple Model K System

mostatic air eliminator equipped with a vacuum check is provided. If the pressure through inadvertence should exceed the design pressure, steam will enter the return lines, close the vent port of the air eliminator, and the system will automatically equalize itself, insuring the return of condensate to the boiler.

See also Pages 843, 898-901

USED WITH MODEL K SYSTEM



Arco No. 900 Adjustable Orifice Valve—Orifice may be adjusted permanently to "meter" the correct amount of vapor to each radiator according to its capacity, to effect balanced heating.

Davis Engineering Corporation

HEAT TRANSFER SPECIALISTS SINCE 1915

Branch Office:
90 West Street
New York City

Paracoil

General Office and Factory:
Elizabeth, N. J.

PRODUCTS—Davis Automatically Fired Boilers, Paracoil Storage Water Heaters, Instantaneous Water Heaters, Fuel Oil Heaters, Oil and Water Coolers, Distillers, Feed Water Heaters, Feed Water Filters and Grease Extractors, Steam Traps, Evaporators, Converters, Preheaters, Hot Water Generators, Condensers, Heat Exchangers

Years of trouble-free service without excessive maintenance charges have been the aim in the design of Paracoil apparatus. Paracoil Heat Exchange Products are preferred by many leading industrial, naval and building engineers. Many large ships and famous buildings have Paracoil heat transfer equipment. Special heat transfer problems invited. Write for bulletin on products in which you are interested.



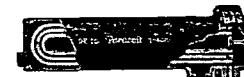
PARACOIL STORAGE
WATER HEATER

For heating and storing hot water for apartment houses, office buildings, hospitals, laundries, etc. Operates with boiler water, exhaust or live steam as heating medium. Steel plate storage water shell with removable seamless drawn copper heating coils. Any pressures specified. Capacity 40 to 25,000 gal. per hour. Capacity tables, calculating data, etc. on request. Write for catalog.



TUBULAR HEAT EXCHANGERS

For cooling lubricating oil or water and similar heat exchange uses. Removable or non-removable tube bundle as required. Transverse or Longitudinal Baffling as required. Floating tube sheet and head construction or shell expansion joint compensates for expansion and contraction strains. Built in single and multi-pass types. Small space requirements. Write for information.



PARACOIL INSTANTANEOUS
U-TUBE TYPE WATER HEATER

Ideal for apartment houses, hotels, etc. Connected below water line of boiler, heats water supply when fires are banked. Cast-iron or steel shell, heating elements of seamless drawn copper.

Capacities 300 gal. and up (below water line installation) or 20 gal. and up (live steam installation).

Catalog on request.

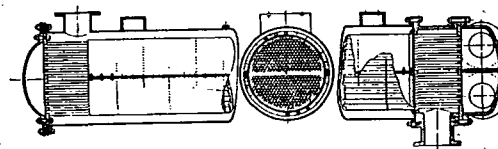
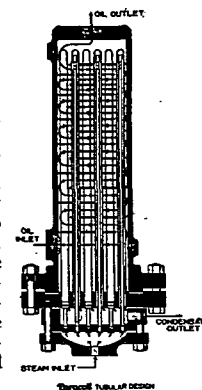
PARACOIL FUEL OIL HEATER,
TUBULAR AND COIL TYPES

Rand System of Fuel Oil Preheating
in Storage Tanks

Efficient and compact, removable heating element, freedom from expansion and contraction strains. Designs permitting easy cleaning.

Turbulent flow of oil assures high heat transfer. Unusually low pressure drop or friction loss. Variable baffle spacing gives variable velocity in proportion to change in viscosity. Horizontal or vertical installation.

Write for catalog.



Section of Paracoil Tubular Heat Exchanger