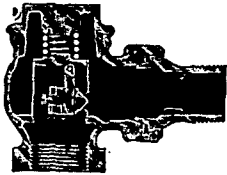


Donnelly Systems Co.

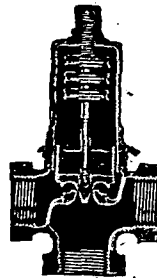
9 Murray Street
New York, N. Y.

Temperature Control by Fractional Damper Regulators and Fractional Distribution Valves. Impulse Check Valves, Thermo-Differential Valves, and other Specialties for One and Two-Pipe Systems, Vacuum Return Line Systems, Gravity and Forced Hot Water Circulation Systems.



The practical and theoretical experience of 37 years has developed the Donnelly Systems and the Donnelly Specialties.

orifice being such that a complete discharge of the air and water is at all times effected and a constant difference in pressure between the branch steam and return lines of one-half pound is always maintained.



The entire operative mechanism of the Impulse Valve is enclosed in a heavy removable tube which is inserted in a standard valve body and the valves are guaranteed for five years.

The Thermo-Differential Valve, used in Vacuum Return Line Systems is constructed as shown. It is made with a standard safety valve body and has a restricted seat which is proportioned to the capacity of the valve. The valve disc is provided with an impact surface, as in the Impulse Valve, and with a cup-shaped portion for holding the weights, together with a central rod which acts as a guide for the vaporizing fluid thermostat. The opening in the bottom of the valve is intended as a cleanout and should be provided with a nipple and cap. A small leakage opening is provided in the seat so that the system will drain when shut down.

A Thermo-Differential Valve is installed in each branch return so that no water, air or steam can pass into the main return without being properly regulated in pressure and flow.

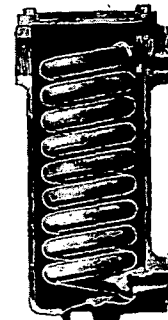
We will be glad to furnish catalogs or leaflets completely describing our specialties and their applications.

Excelso Specialty Works

119 Clinton Street
Buffalo, N. Y.

Excelso Indirect Water Heater, Fire Pot Generators, Rotary Hack Saw Tools

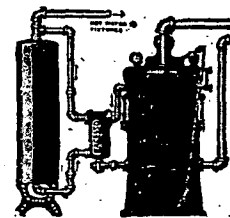
The Excelso Water Heater



consists of a heavy copper coil heating element fitted in a cast iron shell by means of patented ground joint connections. All parts are interchangeable and easily accessible.

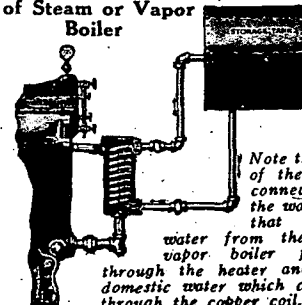
Connected on the outside of steam or vapor boilers the Excelso eliminates the fire pot coil and insures a constant supply of domestic hot water all during the heating season at an even temperature.

The Excelso method generating domestic water is so satisfactory and the expense so trifling that boiler manufacturers are providing special tappings in their boilers and heating engineers generally are recommending its use.



Shows Excelso connected to round type of steam or vapor boiler. The storage tank may be located either in basement or any floor above.

Typical Installation of Steam or Vapor Boiler



Note that the shell of the Excelso is connected below the water line and that the boiling water from the steam or vapor boiler flows down through the heater and heats the domestic water which circulates up through the copper coil.

Dimensions—Price List—Capacities

Size of Heater	11	12	13	14	15
Length, in.	10½	14	11½	15	19½
Diameter, in.	5	5	6½	6½	6½
Shell openings 1"	1"	1"	1¼"	1½"	1½"
Coil openings ¾"	¾"	¾"	1"	1"	1"
Weight, lbs.	17	23	31	39	46
List Price	\$30	\$40	\$50	\$60	\$70

Heating Water Below Water Line of Steam or Vapor Boilers

Size of Heater	11	12	13	14	15
Tank Capacity	30	45	60	90	120
Temperature rise	100 degrees in 3 hrs.				

Heating Water With Live Steam

Size of Heater	11	12	13	14	15
Tank Capacity	50	75	100	150	200
Temp. rise 100°-3 hrs.	5 lbs. pres.				

Instructions for Ordering Heaters

Many tanks are installed too small and heaters should always be ordered to correspond with work required and not size of tank. Also make liberal allowance if circulating system is used.

Excelso Rotary Hack Saw Tool

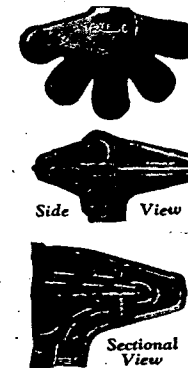


Hack Saw Blade

Boilers may be easily and quickly tapped by means of the Excelso Rotary Hack Saw Tool.

Each Tool cuts holes for either 1", 1¼" or 1½" pipe tap. Price, \$7.50 net, including 6 blades, 2 of each size.

Excelso Fire Pot Generator



Pot Generator fits any type hot water boiler or hot air furnace and is so designed as to be entirely above fire.

Made in two sizes and in both cast iron and brass.

Size No. 1. Up to 40 gal. capacity.

Size No. 2. Over 40 gal. capacity.