

agulite—just sufficient to coagulate the particles of rust, thus insuring clear water.

In small supply systems designed to operate at low velocities, no further apparatus is required to produce non-corrosive water. In the case of large buildings in which sudden peak loads may occur, this apparatus is used in conjunction with a filter. Anti-corrosion filters are especially designed for use on hot water and have a very low internal resistance.

The apparatus is generally located in the basement near the hot water heater. It is connected to the sewer lines so that the deactivating tank and the filter can be blown off and washed out as required.

The Deoxidizing Deactivator can be used with steam, coal or gas as the source of heat. Modifications of this apparatus can be had to meet any condition.

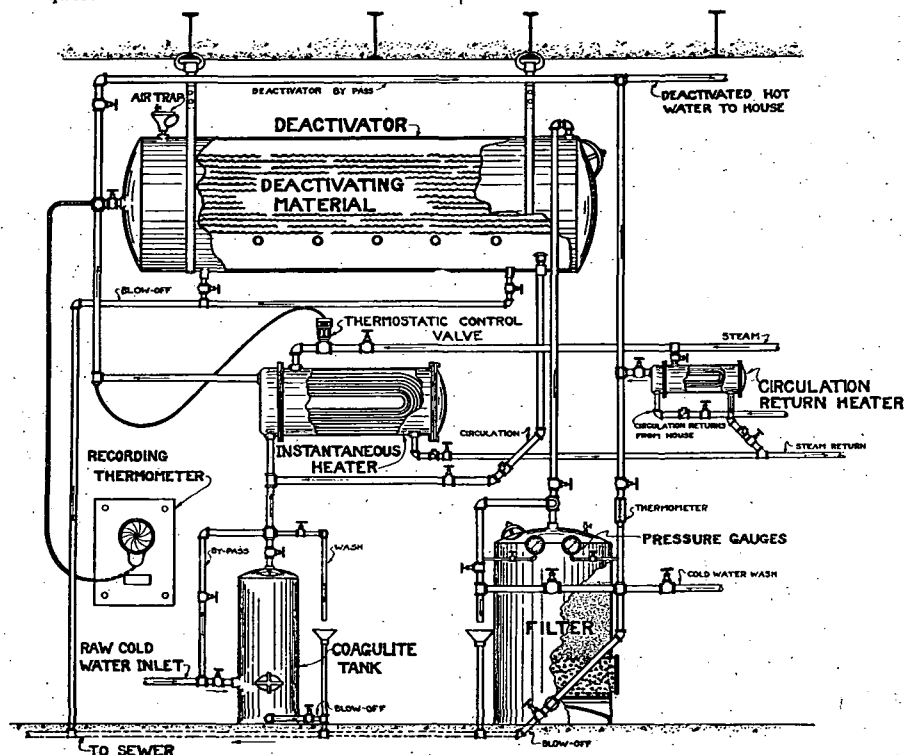
Specifications, capacities, dimensions, weights, etc., will be provided upon request.

How To Estimate Hot Water For Buildings

Allow per H. W. fixture per day—For apartments, 25 gallons for high class, 20 gallons for medium class, and 15 gallons for tenements. For transient hotels, 60 to 80 gallons. For apartment hotels, 40 to 50 gallons. For institutions, 50 to 75 gallons. For offices with private basins in rooms, 15 to 20 gallons; and for offices without private basins in rooms, 40 to 50 gallons.

Allow for maximum hour demand in percentage of daily consumption, 10 per cent. for apartments, apartment hotels, institutions and offices, and 7 per cent. for transient hotels.

Add for laundries one gallon per piece of laundry, and for kitchens one gallon per maximum hour per person served.



Deoxidizing Deactivator Type B 4

The Permutit Company

440 Fourth Ave.

New York

Apparatus for removing hardness from water and preventing the formation of scale in hot or cold water systems

Soft Water for Every Purpose

A Permutit Water Softener will give your clients a bountiful supply of sparkling soft water for any purpose, either personal or industrial, no matter how hard and unsatisfactory the available supply is.

Size

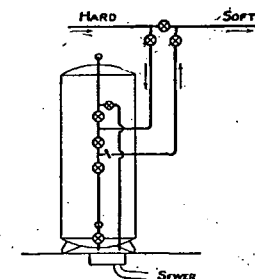
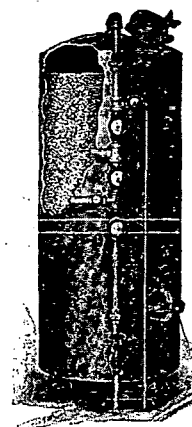
A Permutit Water Softener is a metal shell or tank, containing Permutit material, that is connected into the house supply line. It is offered in two sizes and six styles, which give an unlimited range of capacities according to the hardness of the water and quantity to be softened. Largest size requires 3'-0" x 6'-6" floor space and 6'-0" head room. Smallest size 2'-0" x 5'-6" floor space and 6'-0" head room. This includes necessary room for operation.

Regeneration

Permutit material is not consumed by the softening process, but is regenerated periodically and used for an indefinite length of time. When it has softened its designated quantity of water, common cooking salt is run through the Permutit bed. The salt restores the Permutit material to its original condition, and after draining off the surplus, it is in exactly the same condition it was at the beginning. The amount of attention required is but a few minutes a week, and anyone can learn to turn the necessary valve correctly.

Capacity

Softeners are customarily designed with capacities to operate a week to ten days between regenerations. Meters are not included in standard equipment but are furnished on order, as most houses have meters. Where no meters are used, the time for regeneration is determined by a soap test that is simple and accurate.



Location

Softeners may be located in the basement or any other convenient spot, and can be connected into the water supply line by any plumber. They are usually placed directly in the main feed line with a simple by-pass arrangement of valves.

Sewer Connection

Sewer connection is customarily in the form of an open sump to avoid the backing up of sewer gases, but it is not necessarily confined to that form.

Pressure

Standard designs are constructed to operate under pressures up to 100 lbs. per sq. inch. The normal pressure drop through the Softener does not exceed 5 lbs.

Material and Workmanship

Softener shells are made of steel. All valves are of the Crane and Jenkins standard, and workmanship throughout is the highest quality. Our many refinements in design and construction make a Permutit Softener a permanent and dependable fixture that will outlast the plumbing system into which it is connected.

Information Required for Estimates

To properly estimate the size, capacity and cost of a Permutit Water Softener for any household the following information is required:

1. Number of people in house (including servants if any).
2. Height of ceiling in basement or other location.
3. Source of water supply, i.e., city, well, river, lake, etc.

If the water supply is that of any good sized city we have an analysis in our files, otherwise we need a half-gallon sample of the water, forwarded in glass or earthenware.