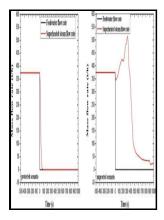
Steam heating - a manual of practical data

Warren Webster & company - Steam heating a manual of practical data, (eBook, 1922) [styleguide.expo.io]



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Spec Sheets / Owners Manuals

Waterlogging can, in some applications, be costly. Also, during certain processes, heavy deposits will settle at the bottom of the tank and can quickly cover the heating surface, inhibiting heat transfer.

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A drop in water temperature of more than 20°F per hour is a good indication that the water tank is too small, since the purpose of a hot-water system is to provide a constant source of heat without need to stoke the fire constantly. Efficiency, which is usually expressed as a percentage, is a measure of how well the sytem converts and delivers the chemical energy stored in the fuel into usable heat energy. From Table 1, the recommended firebox volume is 9 cubic feet.

Steam Heating Process

Water-cooled doors are normally made with inner and outer metal surfaces separated by a 2- or 3-inch cavity through which water can circulate. Because a D-value can be determined at various temperatures, a subscript is used to designate the exposure temperature i.

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Since most radiators have similar heat transfer characteristics, the deciding factor in determining capacity is physical size. The problem with this approach is that the distribution pumps may not run all the time and stratification can occur when the pumps are turned off. The gravity displacement autoclaves are primarily used to process laboratory media, water, pharmaceutical products, regulated medical waste, and nonporous articles whose surfaces have direct steam contact.

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