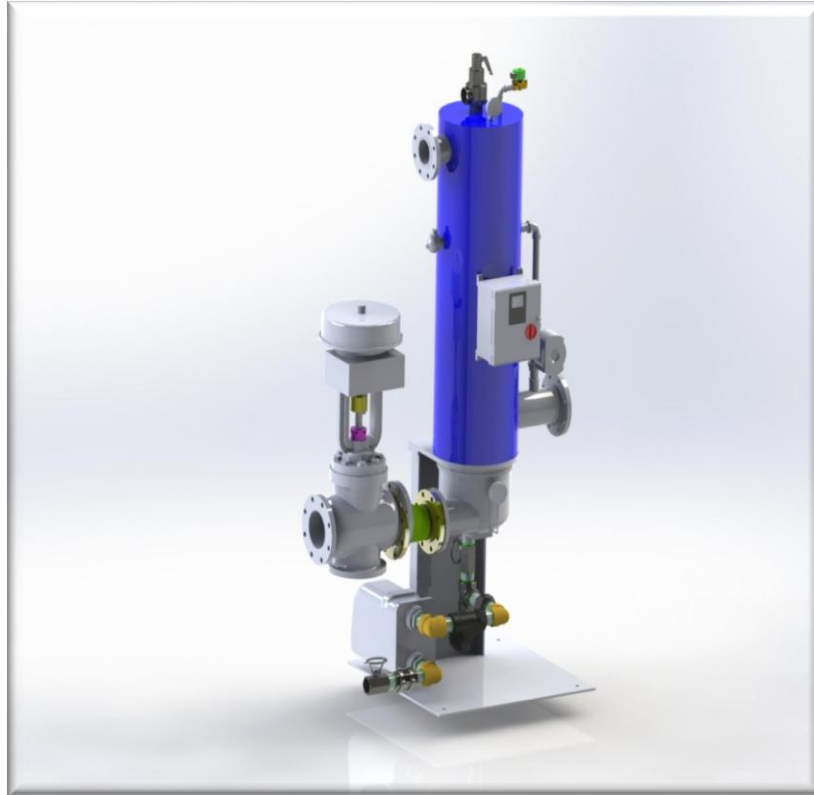


Instantaneous Hot Water solution for Heritage Building:



Business Case Study

Old mechanical rooms are changing more often than as usual. Many renovations in old building and revamping of hospital and university or commercial property mechanical room. These sites often face the challenge of tight space constraints.

Application:

Building operators are in the process of removing large hot water tanks and replacing them with small, compact and highly efficient instantaneous hot water systems, to fight space constraints.

Solution:

Our solution is well engineered vertical shell and tube with all the controls and safety gear suitable for local registration code (Canada wide). We at Steam & Thermal Technologies have done many DHW skids for instantaneous design. Designs available from 25 gpm to 250 gpm on low pressure steam.

These designs feature single loop controllers also available with HMI, pneumatic or electric actuated valves and are fully designed with a pump trap assembly to avoid stall conditions.

All equipment is selected and sized for best turn downs knowing the peaks of DHW usage. The package is complete with a well sized Expansion tank to absorb increase in volume of hot water.

Advantages:

- Stainless steel or copper nickel design for DHW service . High chloride and TDS levels can be accommodated.
- Bacnet Modules on controllers to easily tie into Building Automation System
- low fouling design, also appropriately accurately sized to fight scaling
- Double wall design for potable water
- Steam in the tubes , DHW in the shell for long life
- Preheating of supply water and sub-cooling of condensate option available