

Built on Tradition



Highland Tank®



Heated and Chilled Water Vessels

HT-1123

Heated Water Tanks (HWT) are used in commercial buildings, institutional facilities and assorted industries that require a constant supply of hot water. Water is typically heated and stored in this ASME vessel during periods of low demand thereby providing an adequate supply of hot water during periods of maximum demand.

HWT can be equipped with all the necessary connections required for installation with most water heaters, boilers or other water-heating devices. They are available as vertical or horizontal type in a wide range of sizes. We can manufacture HWT to our standard specifications or custom design fabrication for those tough projects.

HWT are typically customized for a specific application. These vessels are available from 300 to 60,000 gallons.

Chilled Water Tanks (CWT) are used with large HVAC installations, resulting in fewer cycles of the compressor and better temperature control overall. The chilled water is used to cool and dehumidify air in sizable commercial, industrial and institutional facilities.

At high-tech data centers, chilled water storage tanks are required for uninterrupted cooling of computer systems and associated components, such as telecommunications and storage systems.

A properly sized CWT adds the necessary volume to “buffer” the cooling system and allows it to operate at peak efficiency. When applied to contemporary chilled thermal storage technology, CWT allow the user to time shift the electrical load of the system from the peak day periods to off peak night time periods.

CWT are typically customized for a specific application. These vessels are available from 300 to 60,000 gallons. Please contact Highland Tank to discuss your specific needs.

Chilled Water Tanks are designed for chilled water systems with insufficient water volume capacity, in relation to the chiller capacity. These tanks increase the capacity of the chilled water system and stabilize the return water temperature.

Drawing & Details



Chilled Water Vessels

Standard Features

- Manufactured to ASME Code, Standard design pressure is 125 psi
- 12" X 16" minimum elliptical manway
- Standard connections from 2" to 3" NPT; 4" to 8" flanges
- Exterior alkyd shop primer
- Interior - NSF approved for potable water:
 - High-temperature epoxy coating
 - Cement Lining

Options

- Vertical Tank Support Systems
 - Ring Bases
 - Angle Legs
- External thermal insulation
 - Spray-on polyurethane foam with acrylic sealer
 - External fiberglass batt with metal jacketing

Heated Water Vessels

Standard Features

- Manufactured to ASME Code, Standard operating pressures range from 60 to 75 psi; standard design pressures are 100, 125 and 150 psi
- 12" X 16" minimum elliptical manway
- Standard connections from 2" to 3" NPT; 4" to 8" flanges
- Exterior alkyd shop primer
- Interior - NSF approved for potable water:
 - Cement Lining
 - High-temperature epoxy phenolic coating

Options

- Tank Support Systems
 - Horizontal - UL Saddles
 - Vertical - Ring Bases or Angle Legs
- External thermal insulation
 - Spray-on polyurethane foam with acrylic sealer (R16 @ 2")
 - External fiberglass batt with metal jacketing (R8 @ 2")

Applications

- Apartment and Commercial Buildings
- Hotels
- Institutional Facilities:
 - Schools, Universities, Hospitals, Prisons
- Industrial Processes
- Sports Complexes
- Hospitals
- Restaurants
- Laundry Facilities

All Highland Tank storage tank drawings are available for viewing or downloading in PDF or AutoCAD DXF format at highlandtank.com



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