

**CONSTRUCTION SPECIAL SPECIFICATION**

**SECTION 15123\_S**

**WATER STORAGE TANKS**

**PART 1 - GENERAL**

1.01 SECTION INCLUDES .....2  
1.02 SUBMITTALS .....2  
1.03 QUALITY ASSURANCE .....2

**PART 2 - PRODUCTS**

2.01 HEATING WATER BUFFER TANKS .....2  
2.02 DOMESTIC HOT WATER STORAGE TANKS .....3

**PART 3 - EXECUTION**

3.01 INSTALLATION .....3

**CONSTRUCTION SPECIAL SPECIFICATION**

**SECTION 15123\_S**

**WATER STORAGE TANKS**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Furnish and install steel buffer tanks used in heating water systems, including accessories and connections to piping systems.

**1.02 SUBMITTALS**

- A. Include outline drawings indicating weight, dimensions and required clearances.
- B. Include product data on accessories.
- C. Provide operation and maintenance manual.

**1.03 QUALITY ASSURANCE**

- A. Construct pressure tanks to ASME Section VIII, Division 1 standards for unfired pressure vessels.
- B. Comply with applicable government regulations.

**PART 2 - PRODUCTS**

**2.01 HEATING WATER BUFFER TANKS**

- A. Acceptable Manufacturers:
  - a. Lochinvar
  - b. Engineer approved equal
- B. Provide ASME stamped tanks.
- C. Tank: Welded steel rated for working pressure of 125 pounds per square inch-gage at 400 deg. F, cleaned, and prime coated.
- D. Construct tank with tappings for installation of accessories.

- E. Provide with integral air elimination system including automatic air vent.
- F. Provide with lifting lugs and structural base.
- G. Insulate to meet ASHRAE 90.1 minimum energy efficiency requirements including a minimum 2” foam insulation.
- H. Provide tanks with handhole cleanout for less than 300 gallon capacity, and manway for 300 gallons or greater.
- I. Provide a thermowell at approximate mid-height of tank, a 1” drain connection at the bottom of the tank,
- J. Contractor and vendor to coordinate orientation of nozzles per mechanical plans and site obstructions.

## 2.02 DOMESTIC HOT WATER STORAGE TANKS

- A. Acceptable Manufacturers:
  - a. Lochinvar
  - b. Engineer approved equal
- B. Tank: Welded steel rated for working pressure of 125 pounds per square inch working pressure. Provide with ASME combination temperature and pressure relief valve with test lever.
- C. Tanks are to be glass lined.
- D. Construct tank with tappings as indicated on plans including thermowell port, T&P relief valve, drain, CW inlet, HW outlet, and heat exchanger port.
- E. Provide with lifting lugs and structural base.
- F. Insulate to meet ASHRAE 90.1 minimum energy efficiency requirements including a minimum 2” foam insulation.
- G. Provide tanks with handhole cleanout for less than 250 gallon capacity, and manway for 250 gallons or greater.
- H. Contractor and vendor to coordinate orientation of nozzles per mechanical plans and site obstructions.

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Mount tanks on new housekeeping pad. Coordinate exact location with field obstructions and new construction.

- B. Flush and clean tank prior to delivery to site and keep sealed during construction.
- C. Anchor tanks in accordance with manufacturer's instructions.
- D. Route full size drain line to nearest floor drain. Avoid obstructing walkways.
- E. Install isolation valves at drain connection, and primary and secondary supply and return connections. Mount valves in vertical where space constraints exist.

END OF SECTION