

LAARS-StorTM 2 Residential Indirect Water Heater

Date: _____ Bid Date: _____
Project #: _____ Location: _____
Project Name: _____ Engineer: _____
Contractor: _____ Prepared By: _____

Model LS-DW-2

Specification

Contractor shall supply and install Qty: _____ Laars-Stor2 Residential Energy Saver double-wall indirect water heater.

The water heater shall be a Laars-Stor model LS-DW-2-_____-L, and shall have a U.S. gallon capacity of _____ gallons (_____ liters).

Unit shall have a DOE first hour rating (at 140°F (60°C)) of _____ U.S. gallons, and a first hour rating (at 115°F (46°C)) of _____ U.S. gallons. These ratings shall be based on 200°F (93°C) boiler water temperature, 50°F (10°C) potable water inlet temperature, and boiler output of 55,000 BTU/hr.

Unit shall have a coil capacity of _____ gallons (_____ liters), and a heating surface area of _____ square feet. Boiler flow through the coil shall be _____ U.S. gallons per minute with a pressure drop of _____ feet w.c., from a boiler with gross output of _____ BTU/hr.

The unit shall be certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure .

The water heaters shall meet or exceed the insulating standards established under ASHRAE Standard 90.1b (current edition). 2 inches of non-CFC foam insulation shall cover the sides and top of the tank to save energy by retarding heat loss. Stand-by heat loss shall be less than ½°F per hour, per ASHRAE Standard 90.1b (current edition). Unit shall also be IBR certified.

Tank shall be glass-lined steel. Tank shall be manufactured of heavy gauge steel that is automatically formed, rolled and welded to assure a continuous seam for lining. Glass lining shall be porcelain-like, high-silica, to provide a tough interior lining. Tank shall come with two protective anode rods, to further protect against corrosion.

The heat exchanger in the tank shall be double wall, 1½-inch glass-coated steel. The heat exchanger shall have low head loss, less than 5 feet w.c. for up to 10gpm water flow.

Tank shall be built with a cold water inlet tube to help minimize sediment build up in the tank, and increase first hour delivery of hot water.

Potable water connections shall be ¾" NPT on 8" (203mm) centers. Boiler supply and return connections shall be ¾" NPT female, and shall be located on the front of the unit. Connection nipples shall be factory-installed for easier installation and longer water heater life.

Unit shall be furnished with fully automatic control aquastat, brass drain valve and temperature/pressure relief valve

Replaceable parts shall carry a 6-year limited warranty, and the tank and heat exchanger shall carry a life-time limited warranty.