



SPECIFICATION SHEETS

- [Sample Specification](#)
- [Sample Hot Water Spec.](#)
- [Gas Pressure Requirments](#)
- [Total Electrical Loads](#)
- [Gas Burner](#)
- [No 2 OIL \(70-350 HP\)](#)
- [No 2 OIL \(70-800 HP\)](#)
- [No 6 OIL \(70-800 HP\)](#)
- [Gas & No 2 OIL \(70-350 HP\)](#)
- [Gas & No 6 OIL \(70-800 HP\)](#)

SUPER SEMINOLE

3-PASS WETBACK SCOTCH MARINE HOT WATER 70-800 HP

SAMPLE SPECIFICATION

GENERAL CONDITIONS

The ___ (quantity) ___ boiler(s) shall be Superior Boiler Works, Inc., Seminole 3-pass wetback scotch marine firetubeboiler Model No. _____. The unit(s) shall have a gross output of ___ (MBH) ___ when fired with ___ (fuels) ___The boiler(s) shall contain not less than 5 square feet of A.S.M.E. fireside heating surface per rated boiler HP. The heat release in the firetube only shall not exceed 121,000 BTU per cubic foot. The complete unit shall bear the Underwriter's Laboratory Label 'B'. The boiler(s) shall be designed, constructed and tested in accordance withthe A.S.M.E. Boiler and Pressure Vessel Code. The boiler(s) shall be designed for _____(30) (60) (100) (160) PSIG water in accordance with Section IV A.S.M.E. Code. The hot water boiler(s) shall have return and outletconnections located on the top centerline of the boiler shell and shall have a dip tube integral with hot water outlet.

BOILER DESIGN

1. All necessary handholes and manholes shall be provided in accordance with ASME Code. In addition, two handholes shall be located in the front tubesheet near the bottom of the boiler on either side of the furnace. An additional handhole shall be located at the rear doors to allow full access to the rear tubesheet.
2. The boiler shall have two davited rear doors to allow full access to the rear tubesheet.
3. The boiler front shall consist of two separate davited doors to allow fireside access to the front tubesheet without removal of the door plates, baffles, or the disconnecting of any fuel lines, linkage, or electrical connections.
4. The boiler shall be equipped with a with 16" diameter inspection opening to allow fireside inspection. Observation ports shall be provided for flame inspection at both the front and rear of the boiler. All doors shall be sealed gas tight with a ceramic fiber gasket, utilizing studs with lugs and replaceable nuts for ease of opening and closing.
5. The rear turnaround area shall be submerged within the boiler water. Refractory baffling between gas passes will not be permitted.
6. The boiler construction shall be of the three pass design, to provide the best ratio of radiant heating surface to convection heating surface, for maximum heat transfer.
7. The boiler shall be equipped with two lifting eyes.
8. The boiler shall be mounted on a heavy structural steel base with runners extending beyond the burner to provide burner support and protection.
9. The entire boiler shell shall be insulated with a minimum of two inch, eight pound density mineral fiber insulation, covered with a 22 gauge phosphate coated steel jacket. All openings in the jacket shall be fitted with cover rings.
- 10.The entire unit shall be factory painted with hard finish, heat resistant paint.
- 11.The large diameter furnace shall be located in the bottom third of the boiler which shall provide for maximum

heat transfer while being in contact with the coolest boiler water.