

Madden Manufacturing Inc.

Proposal Specification No.

Boiler Water Treatment Chemical Feed System

Madden Model Number CF-0111

Part 1 -- General

1.1 The Summary

- A. The CONTRACTOR shall provide all labor, materials, equipment, tools, and incidentals required to furnish, install, test, and place into operation this Madden boiler chemical feed system to deliver the boiler(s)' water with (phosphate, oxygen scavenger, and amine) the proper water treatment chemicals.

1.2 Product

- A. Diaphragm Metering Pumps (3)
 - a. Madden part no. JN102A, simplex diaphragm metering pump, rated for 0.2 - 2 gallons per hour at a maximum pressure of 250 psi. The pumps' output will be manually adjustable while the pumps are running. The motor will be 1/3 HP, TEFC, 1/60/115-230. The pumps will be finished with acrylic blue paint. Pump solution head construction: 316 SS head and valve bodies, Teflon faced diaphragm, Teflon valve seats, 316 SS valve balls, double ball valves for both inlet and outlet valves. The outlet piping connection will be 1/4" NPT.
- B. Tanks (3): 100 gallon LDPE, 29.5" diameter X 66" overall height. 12" screw on lid comes standard, with cone bottom and drain for pump suction line. Includes 1/4" bulkhead fitting for PRV return line. Come with blue powder coated steel stands. Rated to 140 degrees.
- C. High Speed Mixers (3): Madden Mixer part no. AA102A, 1725 rpm direct drive, constructed with 5/8" stainless steel shaft and 4" stainless steel propeller. The motor will be 1/3 HP, 1/60/115-230, TEFC. Mounted directly to tanks.
- D. Steel Mounting Skid: 54" wide X 108" long. Constructed with carbon steel 7 gauge top, 3" structural C section frame. With fabricated vertical steel channel with pad for mounting mixer motor. Finished with epoxy paint.
- E. Pump suction tubing for each pump: 1/4" 316SS pipe and fittings. Includes SS valve for tank drain, and one SS Y strainer per tank. One 100 mL calibration column will be installed per pump set (3 total).
- F. Pump relief piping, stainless steel relief valve set at (please specify) __psi, (one per pump) with 316 SS tube and fittings for return of pumped liquid to supply tank.
- G. Control Panel: 24" X 20" X 6" stainless steel, piano hinged enclosure with 3 point latching handle. NEMA 4X. Includes on/off buttons with pilot lights for each motor (3 pumps & 3 mixers) and a lockable master on/off switch.

Comments: Madden Manufacturing chemical feed systems come with the tanks, pump suction tubing, and pump relief valve tubing piped together. Any and all other piping installation to be done by the installing contractor. For further questions you can call Madden 800-369-6233 or email: info@maddenmfg.com.

Specifications for:

By:

Date: