

# Hurst Boiler & Welding Company, Inc.

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## FEEDMISER – FEEDWATER SYSTEM – SAMPLE SPECIFICATIONS

The following sample specifications are provided by Hurst Boiler & Welding Co., Inc. to assist you in meeting your customer's specific needs and application.

The sample specifications are typically utilized as the base template for the complete boiler specification. Contact your local Hurst Boiler & Welding Co., Inc. authorized representative for information on special insurance requirements, special code requirements, optional equipment, or general assistance in completing the specification.

### Hurst Feed Water System “Feedmiser” (30-2000 Gallon)

#### 1.0 – Feedmiser Model Number

Furnish an open vented boiler feed water system, Hurst “Feedmiser”, model FM---. The system shall be a factory-packaged unit with pumps and trim factory piped and wired as specified herein.

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#### 2.0 – Boiler Feed Tank

The boiler feed tank shall be constructed of (3/16” through 350 gallon, ¼” 400 gallon and >) carbon steel. The tank openings shall include as a minimum a 3,000 lb. coupling for: pump suction connection, condensate return, drain, tank overflow, and two for vents to atmosphere. The boiler feed system shall be supported with structural steel support legs with a minimum height as required for the NPSHR of the pumps selected. Provide for a steel base for pump supports.

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#### 3.0 – Tank Trim

Tank trim shall include the following:

- a. Automatic float type water level control for maintaining water level with make-up water.
- b. Water gauge glass set with bronze shut-off cocks and drain.
- c. Tank drain valve.
- d. Tank thermometer.

Optional trim:

- a.  Sacrificial magnesium anode.
- b.  High temperature condensate return diffuser pipe, installed below the normal water level.
- c.  Steam pre-heater assembly including a steam inlet strainer, a steam pressure reducing valve to reduce the steam inlet to 10 psi, and a self contained temperature regulator with a steam sparge tube to maintain the water at 180° F.

#### 4.0 – Boiler Feed Pumps

Provide boiler feed pump(s) of the centrifugal type.

Pump Type:  Simplex  Duplex  Triplex

GPM (Gallons Per Minute):

Discharge Pressure in psig:

Electrical Supply:  / 60 /

RPM 3450 – ODP or TEFC

Pump seals rated for: 250° F

Provide individual pump suction piping including a strainer with removable and cleanable basket, and a gate type shut off valve. Pumps shall operate as on/off type and controlled by the respective boiler's water level controls. (Pumps shall be continuous run type to maintain boiler's water level control automatically through the boiler's proportioning water level control. Provide for pump discharge orifice for field installation of a recirculation line for minimum pump flow).

Optional: Provide pump discharge check valve and pressure gauge.

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#### 5.0 – Wiring & Control Panel

Provide a factory wired NEMA 1 control panel enclosure including Allen-Bradley pump motor starters and heater, circuit breakers, pump selector switches, and control panel lights for annunciation of pump operation.

Optional: Provide for high and low water level controls red lights for annunciation, and an alarm bell with silencer. Provide dry contacts for activation of a chemical feed pump when the pump runs.

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#### 6.0 – Feed Water System

Contractor shall install the feed water system as indicated on the project drawings.