# 72,000 PPH Deaerator System

One (1) 72,000 pph spray type deaerating feedwater heater and storage tank with stainless steel internals. The deaerating heater and storage tank is constructed in compliance with the “Heat Exchanger Institute’s ‘Standards and Typical Specifications for Deaerators’, 1992” for 50 psig design pressure. The deaerator has been 100% x-rayed during fabrication to ensure high-quality construction. The storage tank is manufactured and stamped per ASME Code, Section VIII, Division 1, and is registered with the National Board. After welding, the heater and storage tank shells were stress-relieved through Post Weld Heat Treatment. The PWHT was performed at a temperature of 1100-1200 deg F as recommended by the ASME code.

The deaerator comes complete with level control valve, pressure control valve, overflow valve, relief valves, High and low level controls, water level glass, vacuum breaker control panels and two (2) feed water pumps.

Specifications

- Feedwater capacity (includes blowdown) (pph) – 75,600
- Maximum make-up water flow (pph @ 60 deg F) – 90,000
- Maximum condensate return (pph @ 180 deg F) – 60,000
- Minimum condensate return (pph @ 180 deg F) – 0
- Design pressure (psig @ 450 deg F) – 50
- Operating pressure (psig) – 5
- Operating temperature (deg F) - 228

Physical Data

- Storage tank holding capacity – 1,500 gallons
- Skid dimensions 9assembled) – 8’ wide x 16’ long x 30’ tall
- Flooded weight – 38,000 lbs

Deaerator/Tank Nozzle Field Connections:

- Make-up water inlet – 3”
- Overflow outlet – 4”
- High pressure condensate return inlet – 1”
- Drain - 1 ½”
- Pump discharge – 3”
- Steam inlet – 4”

Voltage and amperage requirements:

- 480 volts, 3 phase, 60 Hz
- Electrical amps - 200

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