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165,000 lbs/hr Deaerating Boiler Feedwater System

Nationwide Boiler's fully piped and wired 165,000 lbs/hr complete deaerating boiler feedwater system is designed to reduce oxygen in the boiler feedwater to 0.005 cc/l maximum from 20% to 100% of the operating range with 100% make-up water (no condensate return). It is comprised of the following:

- Design Pressure of 100 psig
- 2,000 Gallons of Storage Capacity
- Fisher Pneumatic Level and Ametek Steam Pressure Controls
- Feed Pump System Including: 6 Vertical Centrifugal Grundfos Pumps (100 gpm @ 940 TDH with 40 hp TEFC Motors Each)
- Twin Marlo Softener - 1,500,000 Grain Capacity (35-300 gpm Make-up Capacity @ 20 Grains Hardness)
- Badger Electronic Totalizing Water Meter
- Chemical Feed Stations for Deaerator and Boiler Feedwater
- Control and Motor Starter Panel including: Pump Starters, Pump Disconnect Switches, Control Circuit Transformer and Disconnect Switch, Indicating Lights, Pump Selector Switch and Hand/Off/Auto Pump Switches and an Alarm Horn with Additional Contacts for Remote Alarm
- Electric Heating System
- Electrical Service Entrance for 480 Volt (240 Maximum Full Load Running Amps)
- NEMA 12 Panel Enclosures
- ASME Code Design and National Board Stampings



Connection Sizes:

Make-up Water:	4" 150 psi RF FLG (50-100 psi)
Deaerator Steam Supply:	4" 300 psi RF FLG (100-300 psi)
Boiler Feedwater:	6" 300 psi RF FLG
Condensate Returns:	4" 150 psi RF FLG (pumped) 3" 150 psi RF FLG (trapped)
Plant Instrument Air:	½" NPT (60-100 psi)

Electrical Power Requirements:

480 VAC, 3 ph, 60 Hz., 400 amps

Drains:

Softener:	4" 150 psi RF FLG
Deaerator:	6" 150 psi RF FLG

Dimensions & Weights:

Length:	53' 0"
Width:	8' 7"
Height:	13' 5"
Shipping:	54,000 lbs
Operating:	90,200 lbs

Ask About Our **Green Solutions**



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* Actual equipment may differ from listed specification. Please consult Nationwide Boiler Inc. for additional details.