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## 140,000 lbs/hr Deaerating Boiler Feedwater System

Nationwide Boiler's fully piped and wired 140,000 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 to Overflow
- Fisher Pneumatic Level and Ametek Steam Pressure Controls
- Feed Pump System Including: 6 Vertical \ Centrifugal Grundfos Pumps (60 gpm @ 740 TDH with 25 hp TEFC Motors Each)
- Twin Kisco Softener—1,500,000 Grain Capacity (35-300 gpm Make-up Capacity @ 20 Grains Hardness)
- Badger Electronic Totalizing Water Meter
- Kisco Multimedia Inlet Filter with Manual Backwash
- 2 Chemical Feed Stations (Deaerator and Boiler Feedwater)
- Control and Motor Starter Panel including: Pump Starters, Pump Disconnect Switches, Control Circuit Transformer and Disconnect, 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:	3" 150 psi flange (50-100 psi)
Deaerator Steam Supply:	4" 300 psi flange (100-300 psi)
Boiler Feedwater:	4" 300 psi flange
Condensate Returns:	3" 150 psi flange (pumped) 3" 150 psi flange (trapped)
Plant Instrument Air:	½" NPT (20-50 psi)

### Electrical Power Requirements:

480 VAC, 240 FLA Service, 3 ph

### Drains:

Softener:	6" 150 psi flange
Deaerator:	6" 150 psi flange

### Dimensions & Weights:

Length:	48' 0"
Width:	8' 7"
Height:	13' 5"
Shipping:	54,000 lbs
Operating:	90,200 lbs

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