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## 150,000 pph Low NOx, 500 psig Skid-Mounted Boiler

Nationwide Boiler's low NOx 150,000 pph, 500 psig design (150-460 psig operating), saturated steam, skid-mounted Babcock & Wilcox Model FM106-97 package watertube boiler is set to burn natural gas or future #2 oil. It is piped and wired and includes the following components:

- Low NOx Burner / Windbox (loose)
- EconoStak Economizer (loose)
- New NEMA 4X Control Panel with
  - ⇒ SIL III Rated Honeywell 7800 Series Burner Management System including PLC Integration
  - ⇒ Combustion Control System featuring Allen-Bradley 5069 Series CompactLogix with Panelview Plus 10" HMI
- Fully Metered Combustion Controls
- Forced Draft Fan & 300 HP Motor (loose)
- Complete Fuel Train & Pilot Ignition System (loose)
- Water Column & Site Glass
- Steam Pressure Gauge
- Low-water Cutoffs
- Safety Valves (loose)
- Feedwater Stop & Check Valves
- Blowdown Valves (loose)
- Continuous Blowdown Metering Valve
- Chemical Feed Valve
- Steam Non-return Valve (loose)
- Stack (loose)
- FGR Ductwork (optional)
- Ultra Low NOx CataStak™ SCR System (optional)
- Weatherproofed (except for freezing)
- Meets FM, NFPA 85 & IRI Insurance Standards
- Electronic Operating Manuals



### Fuel Consumption:

Natural Gas: 175,000 SCFH @ 18 psi reg.

### Connection Sizes:

|                      |              |
|----------------------|--------------|
| Main Steam:          | 10"-300# FLG |
| Natural Gas:         | 6"-150# FLG  |
| Feedwater:           | 4"-300# FLG  |
| Bottom Blowdown:     | 1½"-300# FLG |
| Continuous Blowdown: | 1"-300# FLG  |
| Chemical Feed:       | ½"-300# FLG  |
| Instrument Air:      | ½" NPT       |
| Water Column Drain:  | ¾" NPT       |

### Electrical Power Service Requirements:

480 VAC, 3 ph, 60 hz, 300 HP Standard\*

### Boiler Dimensions & Weights:

|                          |                           |
|--------------------------|---------------------------|
| Length / Width / Height: | 33' 2" / 11' 11" / 14' 2" |
| Shipping Weight:         | 123,700 lbs               |
| Operating Weight:        | 158,500 lbs               |

### Emissions Data (natural gas):

|                                    |                          |
|------------------------------------|--------------------------|
| NOx (corr. to 3% O <sub>2</sub> ): | 83 ppm / 30 ppm with FGR |
| CO (corr. to 3% O <sub>2</sub> ):  | 50 ppm                   |

Ask About Our **Green Solutions**



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 True Nationwide Coverage & Beyond. Representatives Located Worldwide.

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