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Nationwide Boiler Fuel Oil Pump & Control Skid

Nationwide Boiler's skid-mounted fuel oil pump and control skid is designed to supply up to 710 gallons/hour (150 psig) and can be used with saturated or superheat steam boilers ranging in capacity from 70,000 - 82,000 lb/hr.:

- Oil Pump & Motor with Starter
- Complete Set of Oil Safety Switches & Valves
- Oil Atomizing Train with Safety Switches & Valves
- Interconnecting Hoses for Trailer-Mounted Boilers
- 4-20 mA Oil Flow Monitoring
- NEMA 4 Electrical Enclosures
- Meets NFPA 8501 Standards

Principles of Operation:

Nationwide Boiler's package boilers are equipped with an industry standard natural gas fuel train. When firing burners on #2 fuel oil, the fuel must be atomized to achieve the most efficient combustion possible. In order to accommodate service where #2 fuel oil is prevalent, the fuel oil atomizing skid was constructed to enable delivery of #2 oil to many of the burners throughout Nationwide's rental boiler fleet. This fuel oil atomizing system is a pre-piped, pre-wired skid mounted assembly with single-point piping and electrical connections designed to expedite installation and commissioning.

This system will accommodate fuel oil supply pressures from 3-150 psig depending on the method of delivery. In cases where supply pressure is less than 150 psig, the fuel oil train is fully equipped to raise the line pressure and subsequently regulate according to a variety of burner inlet pressure requirements. Fuel flow is also modulated automatically relative to the burner's firing rate via PLC feedback, and monitored through a digital, turbine flow meter with 4-20 mA output for remote monitoring.

Working with the fuel oil train is the fuel atomizing train that consists of two atomizing medium regulating stations as well as a full battery of safety controls. The first station reduces steam supply pressures up to 740 psig down to a more suitable 165 psig. The second regulating station synchronizes the atomizing medium pressure with the fuel oil pressure through a differential regulator ensuring proper atomization at the burner inlet. The atomizing train is pre-piped to accommodate compressed atomizing air for startup with a smooth transition to atomizing steam once the boiler reaches desired operating capacity.



Fuel Oil Consumption:

#2 Oil: 710 GPH

Connection Sizes:

#2 Oil Supply / Return: 2"-150# FLG / ¾"-150# FLG
 Bypass Pump Supply: 1"-150# FLG
 Atomizing Air Supply/Steam: 1"-150# FLG / ½"-600# FLG
 Instrument Air Supply: ½" NPT
 Drain: 2" NPT

Electrical Power Service Requirements:

480 VAC, 3 ph, 60 hz, 15 amp

Dimensions & Weights:

Length / Width / Height: 93" / 48" / 69"
 Shipping Weight: 1,660 lbs
 Operating Weight: 1,760 lbs

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