



# MODEL BMK-3.0LN GWB

## TECHNICAL DATA

### AERCO Low NOx Benchmark Gas Fired Hot Water Boiler System

The AERCO Benchmark 3.0 Low NOx (BMK 3.0LN) Water Boiler is designed for condensing application in any closed loop hydronic system. It delivers 15:1 burner turndown to match energy input directly to fluctuating system loads to yield the highest possible seasonal efficiencies. And no other product packs as much capacity into such a small footprint.

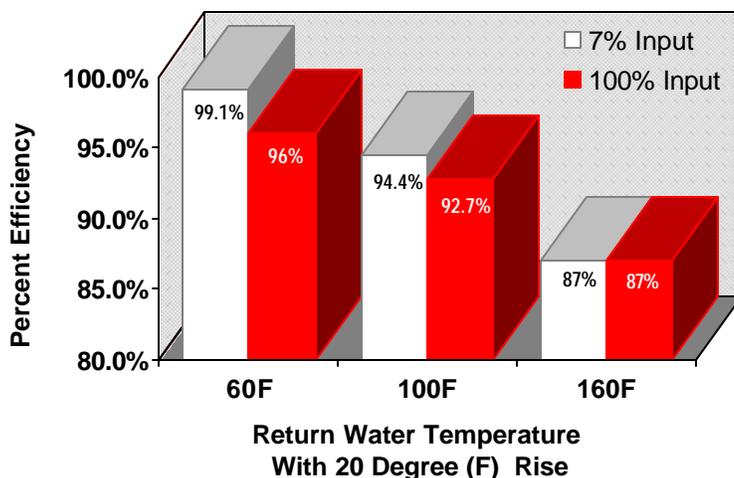
To minimize emissions, the BMK 3.0LN is fitted with a low NOx burner whose emissions will consistently measure <30 ppm of NOx corrected to 3% excess oxygen at all firing rates. The fully modulating burner also maintains AERCO standards for energy efficiency, longevity, reliability and construction quality.

The BMK 3.0LN can be used singly or in modular arrangements and offers selectable modes of operation. In addition to controlling the boiler according to a constant setpoint, indoor/outdoor reset schedule or 4-20mA signal, one or more units can be integrated via Modbus communications protocol to AERCO's multiple boiler management system (BMS) or a facility-wide Energy Management or Building Automation System.



### Operating Efficiency

Comprehensive curves are being developed to certify the unit's efficiency over its entire 200,000 to 3,000,000 BTU/hr. operating range for a variety of operating conditions. The initial boundary tests confirm that up to 99.1% can be achieved when the unit operates at its lowest firing rate (7% input) with 60°F return water temperature. Even at 100% input, the BMK3.0LN delivers exceptional efficiency.



### BMK 3.0LN Features

- Natural Gas
- 15:1 Turndown Ratio
- <30 ppm NOx Emissions at all Firing Rates
- Direct or Conventional Vent Capabilities
- AL29-4C Vent Materials Req'd per UL 1738
- Quiet Operation Throughout Firing Range
- Internal Low Water Cutoff (Manual Reset)
- Compact Footprint (79"H x 28"W x 64"D)
- Precise Temperature Control  $\pm 2^{\circ}\text{F}$
- Sealed Combustion Capable
- Ventless Supply Gas Regulator
- UL, CUL for Alcove Installation on Combustible Flooring



