

# MORE HOSPITALS ARE DISCOVERING "THE MIURA ADVANTAGE."



*MIURA Gas or Oil Fired  
EX Series  
High Pressure Steam Boiler*

*MIURA Gas-Fired/Low Nox  
LX Series  
High Pressure Steam Boiler*

*"We had Miura boilers here for about three years. Our first two paid for themselves in about a year on fuel savings alone. These were Miura EX-Series dual-fuel 200BHP units. The third unit is an LX-Series gas-fired 100BHP unit."*

**Shannon Clifton,**  
*Engineering Supervisor, Duke Raleigh Hospital*

# Hospitals Select Miura Boilers for Highest Natural Resource Conservation, Reduc

## Seasonal Efficiency

Miura boilers maximize efficiency for the unique seasonal load requirements of hospitals, while providing the 100% back-up capability (N+1) as required by the Joint Commission (JCAHO). For example, a typical competitor may spec two 400BHP units for a mid size hospital, while Miura will spec three 200BHP units. The competitor will run both units (800HP) while Miura will run two 200HP units (400HP) and have the third 200HP unit on standby. Since Miura boilers produce steam in 5 minutes from a cold start, the third (back-up) unit can remain cold until needed, thereby saving valuable fuel and money! Additionally, Miura's MI Controller (see next page) will automatically rotate the lead boiler to keep the same number of hours on all units, and it will automatically turn on a standby boiler as needed.

**Two 400BHP  
Fire Tube boilers (800HP Total)**



**Three 200BHP  
boilers from Miura  
(600HP Total)**



**VS.**

**Greater efficiency with Miura's modular, load matching technology means less installed HP needed for 100 % redundancy (N+1).**

**Before**



**After**



**Save on new construction costs or re-capture precious space with Miura's compact design.**

## Space Savings

Hospital construction is among the most expensive of any commercial building. That's where Miura's compact steam boilers offer a real advantage. At a nationwide average of well over \$200 per square foot, construction costs for boiler facilities that utilize large boilers is like throwing money away. In today's economy, reducing capital expenditures is essential and Miura has the best, most efficient solution for your hospital.

## "Green" Benefits

Hospitals everywhere are maximizing their investment in money-saving, environmentally-sound products. In steam boilers, Miura leads the way. Our innovative '5 minutes to steam' technology saves an average of 20% on fuel costs. Plus, in multiple installations (required for redundancy), it allows users to literally turn off excess capacity for maximum seasonal efficiency and varying load demands. Miura boilers also feature low NOx, and reduced CO2 emissions.



**Water to steam  
in 5 minutes.**



**Save money,  
conserve natural  
resources.**



**Low NOx  
output technology.**

# Efficiency in All Seasons, Fuel Cost Savings, Reduced Construction Spending, and more...



## LX SERIES

- Gas fired: Natural Gas or Propane
- High and low pressure steam options available (300 MAWP, 250 MAWP, 170 MAWP or 15 MAWP)
- Hot water boilers are available depending on models (refer to a Miura hot water boiler catalog for details)
- Compact, an LX 200 Boiler can fit through a standard doorway
- Naturally low NOx (nitrogen oxides) Rating as low as 9ppm depending on model

## EX SERIES

- Dual fuel fired Natural Gas, Propane or #2 Fuel Oil
- High pressure options available (300 MAWP, 250 MAWP or 170 MAWP)
- Hot water boilers are available depending on models (refer to a Miura hot water boiler catalog for details)
- NOx rating is available as low as 30ppm depending on model



## BL Micro Controller

The BL Micro Controller Boiler Control System measures and controls the performance of your boiler in an easy-to-read, user-friendly format:

- Steam Pressure
- Flue Gas Temperature
- Feed Water Temperature
- Scale Monitor Temperature\*
- Overheat Monitor Temperature
- Flame Current
- Remaining Time to Blowdown
- Automatic Surface Blowdown Valve (On/Off)
- Water Conductivity
- 11-Point Boiler Management Data

### Green (normal)



- Greater control over steam pressure settings for steadier steam pressure
- Allows for adjustment of high and low fire scale thermocouple settings
- Allows for adjustment of automatic blowdown based upon Total Dissolved Solids (TDS) and/or blowdown rates
- Easily interfaces with the Miura "Colormetry" unit to minimize scale formation due to water softener failure



**Yellow (warning) Red (emergency)**

\*Unique advantage of Miura Boilers

## Support Products

### Ancillary Equipment



Deaerators, Feedwater Systems, & Blowdown Separators



Colormetry Water Hardness System



Water Softener



BOILERMATE®

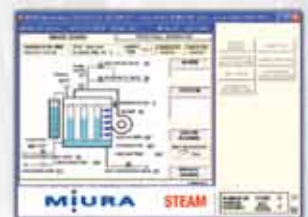
### Multiple Boiler (MI) Controller



This MI controller sends an ON or OFF signal to the boiler MTI terminal. In addition, it brings the boilers on line when needed, in order to match load patterns for the highest possible In-Service Efficiencies.

### Trouble-Free Online Maintenance System

Efficiency is also measured in trouble-free, reliable performance and Miura Boiler's online maintenance system with the "sliding window feature" actually records an alarm or caution four seconds before it occurs, so it can be diagnosed and corrected faster. This important feature is one of many Miura boiler advantages.



# Are your boilers burning your bottom line?

## Copy, fill out, and fax-back today for a Free In-Service Efficiency Study.

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone Number: ( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

Mobile: ( \_\_\_\_\_ ) \_\_\_\_\_ - \_\_\_\_\_

Email Address: \_\_\_\_\_

Please check all that apply:

- I am interested in a free in-service efficiency study
- I am interested in a free load analysis
- Please contact me with more information on Miura Boiler, Inc

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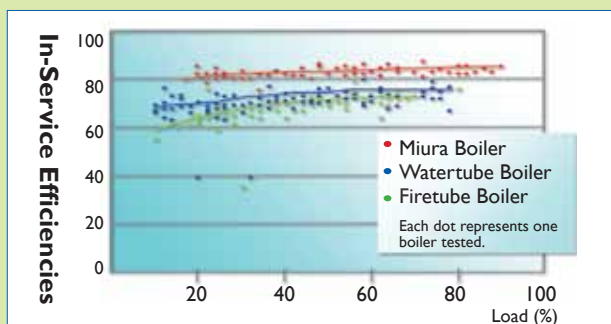
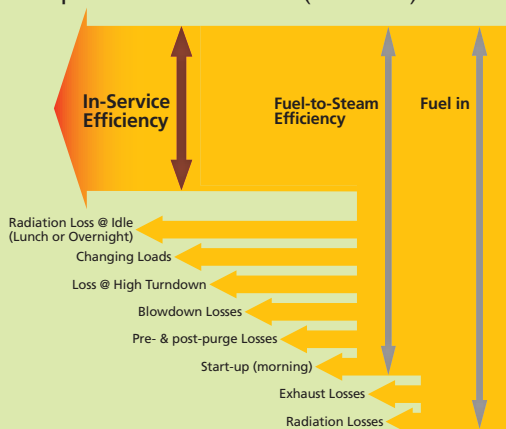
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In-Service Efficiency is a measure of overall performance, no matter your load profile. High In-Service Efficiency is the level of performance every Miura Boiler customer can expect. This standard of excellence has been established based on taking all factors of the boilers operation into account (see chart).



The chart (above) compares in-service efficiencies of Miura boilers with both firetube and watertube boilers. Miura's design results in optimal heating surface transfer with minimal water content for fuel-to-steam efficiencies of 85%. Although typical firetube designs can deliver up to 83% fuel-to-steam, studies comparing actual efficiencies have shown Miura averages 10% to 40% in fuel savings over standard firetube designs.

## Miura Boiler: Highest In-Service Efficiency in the Industry



Miura Steam is Engineered for  
Greater Efficiency, Lower Costs.

[www.miuraboiler.com](http://www.miuraboiler.com)



## Hospitals: Get Your Free In-Service Efficiency Study Today.