

THINK GREEN



SAVE GREEN

Miura Boilers are Engineered for
Greater Efficiency, Lower Costs.
Discover The Advantages...



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



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

MIURA

Miura Leads the Steam Boiler Industry with Innovative Technology that Saves Money While Saving the Planet

Steam Boilers

Miura is known world wide for our commitment to protecting the environment and our innovative and efficient boiler designs. Our low NOx steam and hot water boilers meet and exceed current and proposed regulations for nitrous oxide emissions levels, as low as 12ppm NOx at 3%, corrected O2.



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 12ppm 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



“Green” Benefits

Natural Resource Conservation

By reducing the consumption of oil and gas, Miura conserves precious and costly resources; saving our customers money, while helping to save the planet.

PROFITS

Cost of FUEL 20% savings

Reduced CO2 emissions

Miura features like MI (Multiple Installation) shutoff, where boilers can be turned on/off as needed, minimize emissions produced by idling losses.



Water to Steam in 5 minutes

Our exclusive floating header design produces steam in five minutes, resulting in reduced fuel costs that save our customers an average of 20%.



Low NOx output aids in environmental safety

Miura’s “green” design maximizes energy efficiency. Not only does it provide substantial fuel savings, it’s also better for the environment. How does it work? Cool soft flame wraps around the tubes from a flame spread over a large surface area. This naturally controlled burn results in remarkably low NOx.



BL Micro Controller

The new BL Micro Controller Boiler Control System offers significant advancements, including many new individual monitoring points, as compared to our popular XJ1.

The BL Controller is the smart answer to troubleshooting. It works for you and with you, identifying problems and suggesting solutions in a plain, descriptive English display.

Detailed Boiler Operations

The BL Micro Controller Boiler Control System measures 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



Our Boilers Require Less Space

Miura Boiler's exclusive floating header design technology produces BHP outputs comparable to much larger units, but with far less water, and a more compact footprint.



Green (normal)



- Greater control over steam pressure settings for steadier steam pressure
- Allows for compensated adjustment of high and low fire scale thermocouple settings
- Allows for compensated 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)

Support Products

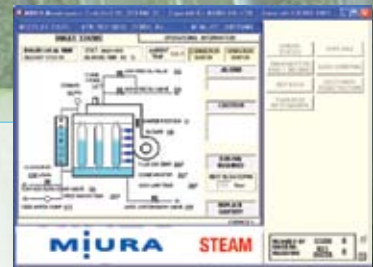
Ancillary Equipment



Deaerators, Feedwater Systems, & Blowdown Separators Water Softener BOILERMATE®

Trouble-Free Online Maintenance System

Efficiency is also measured in trouble-free, reliable performance, and Miura'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.



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.



What is Colormetry (for hardness)?

Water hardness is considered to be the most common factor in damaging a boiler. Typically the level of hardness in the water is checked manually by using chemical reagents. Such measurement are time consuming and can result in errors in reading. Colormetry solves all these problems by offering reagent injection, mixing and evaluation.

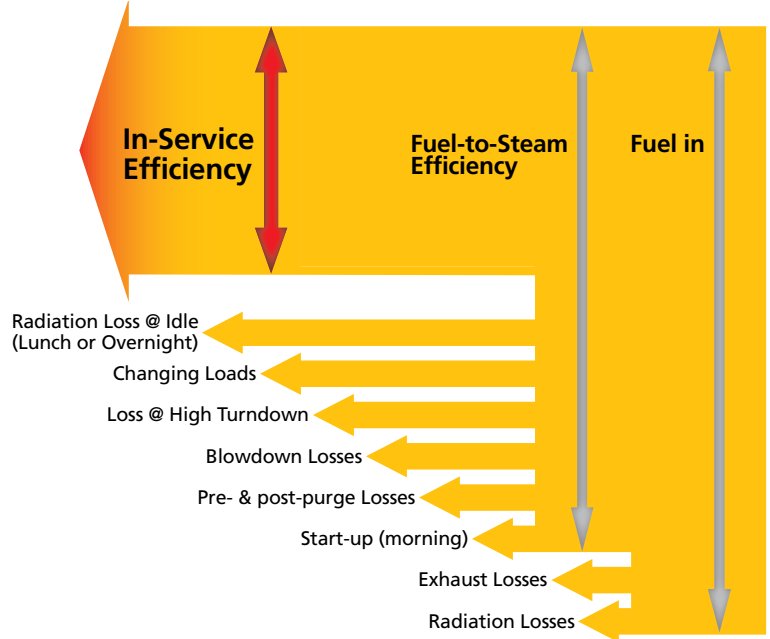


High In-Service Efficiency

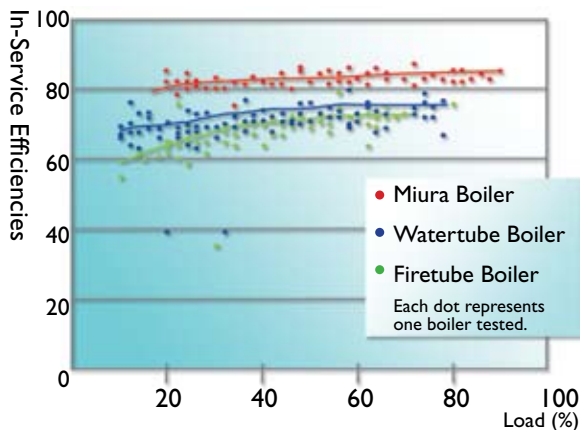
A Standard of Excellence that sets Miura apart from other Process Steam Boiler manufacturers

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 customer can expect. This standard of excellence has been established based on taking all factors of the boiler's operation into account (see chart). For a further explanation, let's review the common Definitions of Efficiency as related to the boiler... Miura has developed the term "In-Service Efficiency" to describe • Combustion Efficiency • Thermal Efficiency • Fuel-to-Steam Efficiency and defines it as follows: The resulting efficiency of a boiler when the total operation cycles are taken into account such as day, night, weekends, high loads, low loads, standby loads.

It is a comprehensive efficiency which is based upon an operating model and is the "bottom line" efficiency, which should be used in any boiler comparison. It reflects how well a particular boiler design handles a particular operating model.



Highest In-Service Efficiencies in the industrial boiler industry



Based on today's fuel costs, the average dollar savings Miura customers enjoy in steam production is approximately 20% over other boiler designs. At 10% to 40% fuel savings, Miura can save about \$200,000 per year in fuel for a typical 600 BHP steam system with the price of natural gas at \$0.90/therm.

The chart (left) 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.

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Miura Steam is Engineered for
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