

EX On-Demand SERIES Dual Fuel Steam Boiler

DUAL FUEL:
The most versatile
Industrial Steam
Boiler in the world!



STANDARD FEATURES

- ✓ Dual fuel fired : Natural Gas, Propane or #2 Fuel Oil
- ✓ Low Water Volume Pressure Vessel
High-pressure options available
- ✓ NOx rating is available as low as 30ppm depending on model
- ✓ Occupies 33% less floor space than typical firetube boilers
- ✓ Scalable Steam for long term flexibility

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Miura's EX Gas/Oil Series High Pressure Steam Boiler is the most versatile industrial steam boiler in the world. The EX design produces steam in 5 minutes or less from a cold start. Faster start-up means less fuel used, greater savings, and more responsible use of precious natural resources.

FULL STEAM IN 5 MINUTES

Floating headers means Miura boilers can produce steam in 5 minutes or less from a cold start, resulting to our clients using substantially less gas and oil. Saving an average of 20% on fuel costs and equivalent CO2 reductions. Standard firetubes require 1 to 1.5 hour start-up times. Miura's unique design yields significant time and fuel savings.

I think one of the good things about the Miura system is that it's integrated and easy to work on, so you don't have to have a bunch of different crafts trying to work on a boiler. It's good to have a couple of mechanics that can do the whole thing.

Ryan Unzicker,
Facilities Manager

DUAL FUEL (GAS/OIL)

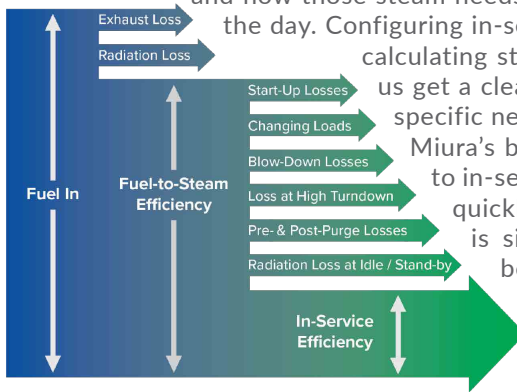
Miura's EX Steam boilers offer a unique advantage for users of both gas and oil. You can have the flexibility of switching fuel, without the need for a separate burner that is typically required by other manufacturers. The EX Series boilers, are ideal for hospitals and other facilities that are required to have a secondary fuel source.

SCALABLE STEAM

One of the biggest advantages of a modular boiler system is scalability. With Miura's Multiple Installation System (MI), companies can configure an on-demand boiler system to address their fluctuating steam needs. The MI system allows you to configure your system with the exact number of boilers needed to build to present steam loads within precise tolerances. From there, it is a fairly easy process to add units to your Miura boiler system to meet steam requirements as your operations grow.

OPTIMUM IN-SERVICE EFFICIENCY

The goal of In-Service Efficiency (ISE) is to measure how a boiler responds to real-world situations and actual operational needs. It's designed to reflect how a boiler handles a facility's operational needs, meaning how much steam a facility needs, when they need that steam, and how those steam needs may change from one day to the next or during the day. Configuring in-service efficiency is a little more complicated than calculating steam-to-fuel efficiency. However, it helps to give us get a clear idea of how efficient a boiler is at meeting the specific needs of a facility.



Miura's boilers are the best on the market when it comes to in-service efficiency. Miura designs its boilers to adapt quickly to changing levels of steam demand, so there is significantly less fuel wasted compared to other boilers. Both the LX and EX series of Miura boilers can start producing steam from a cold start-up in less than five minutes whereas other boilers may take an hour or more to start operating at peak capacity. Miura boilers also use less water than other boilers, which helps to maximize heating surface transfer.

Miura's computer-aided design results in optimal heating surface transfer with minimal water content for fuel-to-steam efficiencies of 85%. Typical firetube designs can deliver up to 83% fuel-to-steam efficiencies. However, in actual use, MIURA averages 10 to 40% fuel savings over standard firetube designs. Over time, using boilers that focus on maximizing ISE can help save a significant amount of money.

EARLY WARNING SCALE MONITOR

Scale is a common issue when boiler feedwater is not properly treated. Any advanced scale formation even as thin as an eggshell can act as an insulator and result in a 10% efficiency loss, higher fuel bills and possible damage to the boiler system.



As standard equipment, ALL Miura EX models are equipped with a thermocouple attached directly to a tube. This alerts the operator should scale begin to form - making it possible to trace and repair the source of the water hardness. The scale can be removed to restore the boiler to its original efficiencies - saving tens of thousands of dollars in wasted fuel and repair bills.

