



STEAM AND EFFICIENCY ON DEMAND



MiURA

ON-DEMAND STEAM SOLUTIONS

MIURA FROM THE BEGINNING

MIURA BEGAN IN 1927 MANUFACTURING RICE THRESHING MACHINES THAT REQUIRED STEAM. It became obvious that there would be a universal need for efficient and reliable steam in other areas. So in 1959, Miura developed the ZP type boiler and the Miura Co., Ltd was born. The innovative compact and efficient design of the Miura boiler was a brilliant answer in a country where all fuel is imported and space is a premium. Since then, Miura has grown to 57% of the domestic once-through boiler market in Japan with factories throughout Southeast Asia, the Americas and our recent facilities in Europe and the Middle East. Today, we produce the most efficient boiler system solutions in the world, from 50 BHP up to 4,500 BHP with a single lead lag controller.



MIURA ZP TYPE
BOILER IN 1959

- 1927 – Established Miura Machinery production.
- 1959 – Established Miura Co., Ltd. for small “Z” boiler production.
- 1967 – Established marine boiler production.
- 1972 – Created the “ZMP” 3 year maintenance contract.
- 1982 – Established Miura Korea Co., Ltd. and joined the Osaka stock exchange.
- 1984 – Joined the Tokyo stock exchange.
- 2004 – Established Miura China Co., Ltd.
- 2008 – Established Miura Manufacturing America Co., Ltd.
- 2009 – Established Miura Indonesia Co, Ltd.
- 2015 – Established Miura International Americas Inc. (Canada, U.S.A., Mexico, Brazil)



LX300 TYPE IN 2015

MIURA OUR PHILOSOPHY

MIURA AIMS TO BE YOUR BEST PARTNER FOR ENERGY, WATER AND ENVIRONMENT WITH OUR TECHNO-SERVICE REVOLUTION.

Techno-Service is our combined initiative of both cutting edge technology and best in class service. Miura is committed to providing the best new products and best services that satisfy the requirements of customers in the fields of heat energy, water treatment, and environmental solutions. Today, as the leader in the fields of energy, water, and the environment, our goal is to grow into the most trusted global partner for every one of our potential customers.



MIURA MUSEUM IN MATSUYAMA



GLOBAL HEADQUARTERS, MATSUYAMA, JAPAN

MIURA AROUND THE WORLD

- Worldwide Headquarters: Matsuyama, Japan, founded in 1927. North American Operations Started in 1990.
- Consolidated Financial Summary: Sales: \$855M, Net Income \$63M (2014).
- Employees: Approx. 4,500 Global.
- Factories located in Japan, Korea, China, Indonesia, Thailand, Taiwan, Canada, U.S., and Brazil.

MIURA IN AMERICA

- U.S. Headquarters: Rockmart, GA founded in 2008. Canadian Operations Started in 1990.
- Consolidated Financial Summary: Sales: \$35M (2014).
- Employees: Approx. 135
- Sales & Service Offices in Atlanta, Los Angeles, San Francisco, Chicago, New Jersey, Dallas, Salt Lake City, Boston, Ontario, Richmond and Greenville/ Spartanburg – COMING SOON!
- Factories in Rockmart, GA and Brantford, Canada.

AMERICAN FACTORY, ROCKMART, GEORGIA



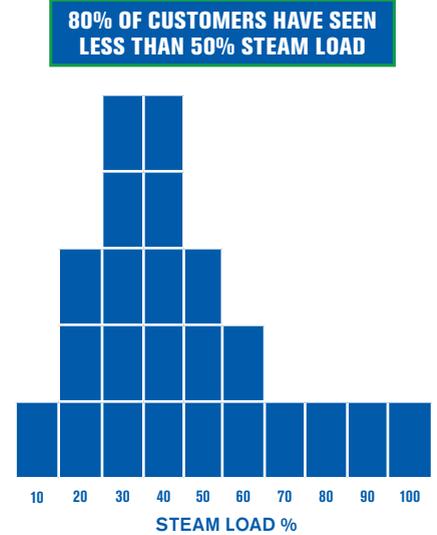
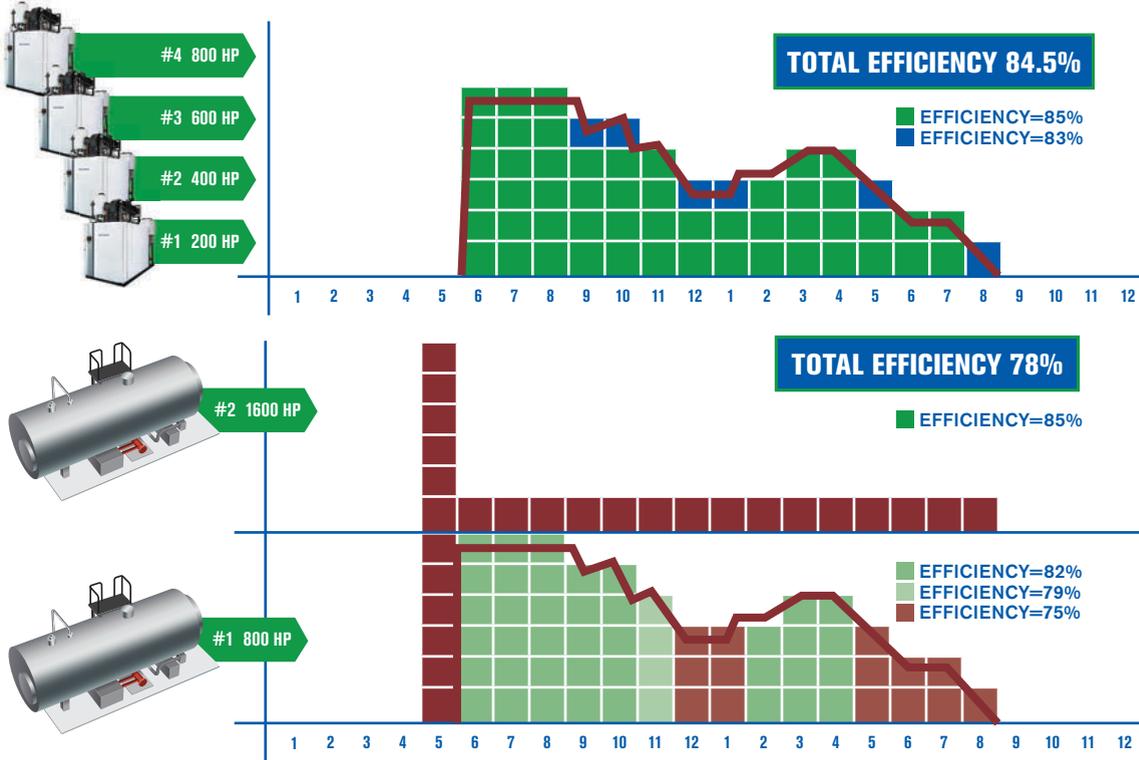
BUILT IN THE U.S.A.

Miura proudly builds its boilers in Rockmart, GA. Quality and safety are the hallmarks of our Rockmart plant. Miura is allowed to use the ASME S, H, U and R stamps and every boiler is UL Certified. We utilize U.S. manufactured boiler tubes and incorporate U.L. certified parts whenever practical. ASME and U.L. construction and inspection is handled on site in our Rockmart plant. We are proud to be only one of 18 factories in Georgia to carry the SHARP certification for safety.

AMERICAN FACTORY 5 YEAR ANNIVERSARY

ON-DEMAND STEAM SOLUTIONS

Would you buy a car that needs to idle all night long or warm up for 90 minutes before you can drive it? Of course not. So why put up with that for your boiler? Because of its floating header design, Miura boilers produce full steam in less than 5 minutes from a cold startup. This allows it to create steam when you need it and only when you need it, with the highest in-service efficiencies available for industrial boilers.



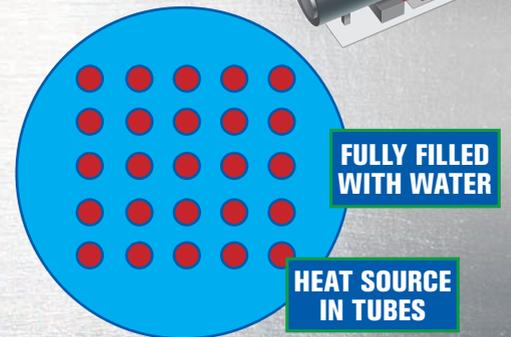
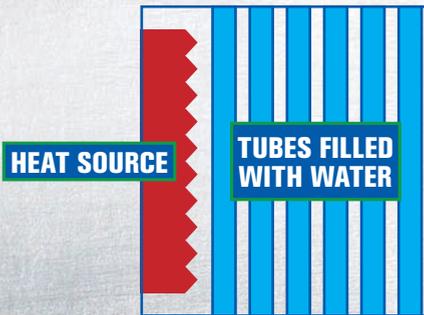
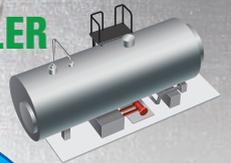
SAFETY SOLUTIONS

With more than 200,000 units in operation world-wide, Miura has never had a pressure vessel explosion. Ever. Miura boilers are intrinsically safer by design. With low water content combined with the unique boiler geometry, catastrophic vessel failure is practically impossible. Miura boilers also have numerous safeguards beyond primary vessel safety to ensure not only safe operations, but also high efficiency and reliable operation.

MIURA BOILER



FIRE-TUBE BOILER



EMISSION SOLUTIONS

LESS CO₂
LESS NO_x

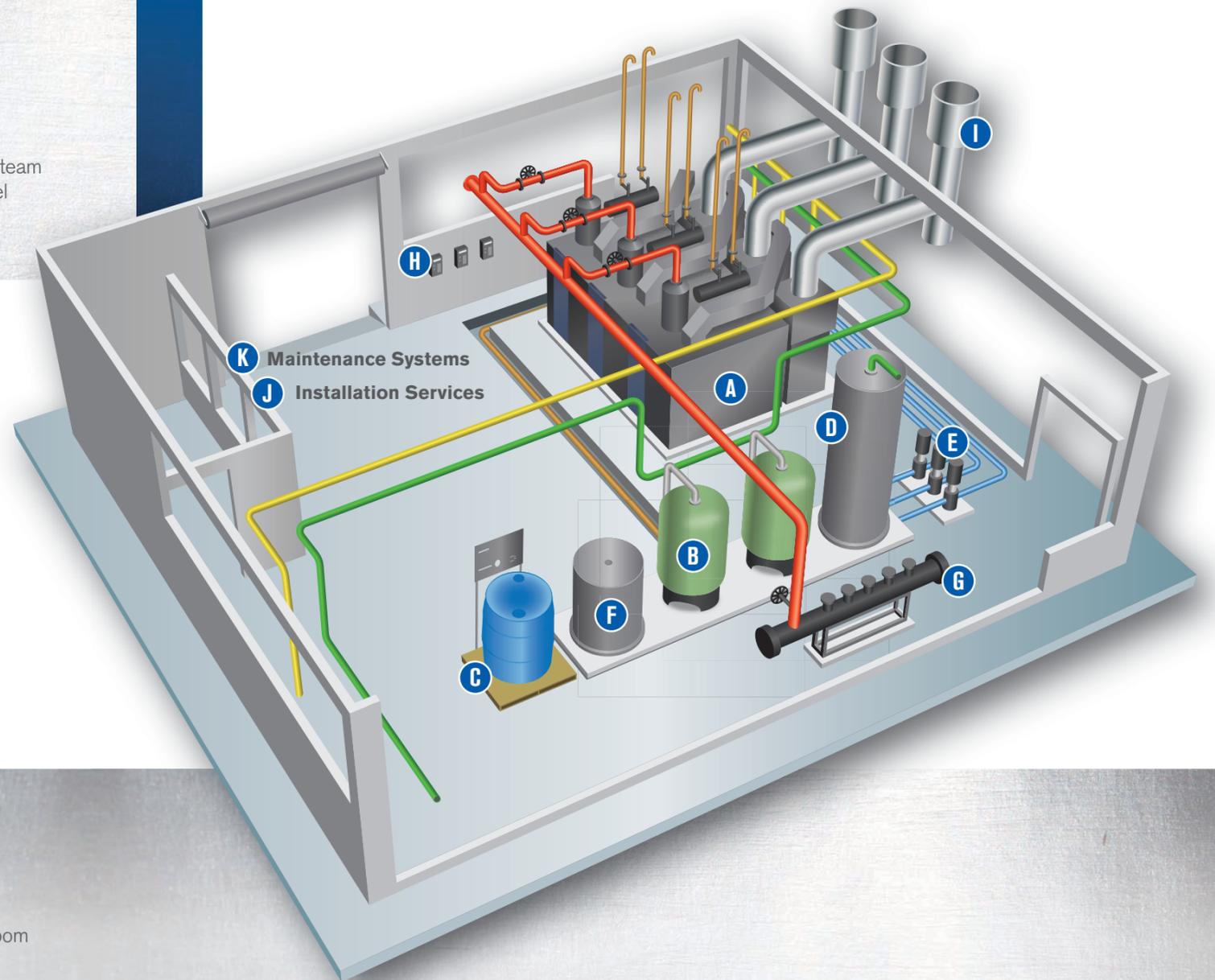
Miura is the leader in high efficient, low NO_x technology. In addition to the N+1 solution, the LX model does not rely on flue gas recirculation, maintaining efficiencies even down to 9 ppm of NO_x at 3% corrected O₂.

Miura's burner technology results in flame temperatures of less than 2,200 F without fear of any backfire, common with other technologies.

TURN-KEY STEAM SOLUTIONS

Miura can provide the total turn-key solution for your operations – from the boiler, to chemicals, water softeners, hotwell/deaerators, steam headers, chimneys – everything you need for a one source system. Miura is the only steam manufacturer that can partner with you for a comprehensive online maintenance system and total pressure vessel warranties against workmanship and water treatment issues.

- A** Modular Boiler Systems
- B** MW Water Softener
- C** BOILERMATE®
(shown with chemical pump control stand)
- D** Feedwater Tank
- E** Feedwater pumps
- F** Brine Tank
- G** Steam Header
- H** Master Controller Communication Systems
- I** Chimney Stacks
- J** Installation Services
- K** Maintenance Systems



SCALABLE SOLUTIONS

By the nature of the modular approach, a Miura system is inherently much more scalable than a comparably sized traditional boiler room solution. Because of their compact size and compatibility, it's easy to add or subtract boilers as needs increase or decrease.

FACTORY EXPANSION

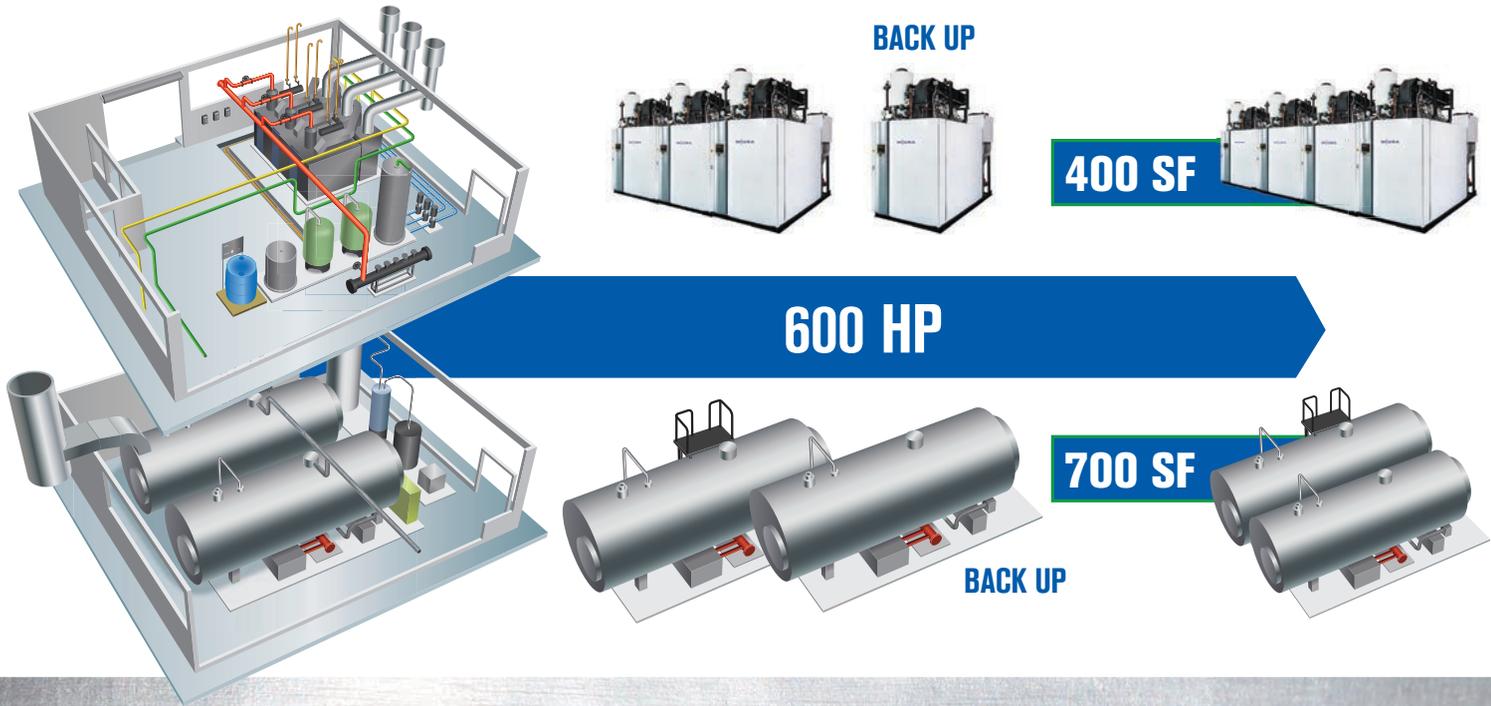


DOWN SIZING



N+1 SOLUTIONS

Miura marries small units with 100% back up (N+1) should a boiler go down. These small boilers (up to 4,500 HP or 150,000 lb/hr) act like one large unit with large turndown ratios while maintaining the highest in-service efficiencies in the market. There is an added bonus of space savings. In general, Miura can reduce new construction space by half or double the output in the same space.



SAVING SOLUTIONS

Overhead costs affect the bottom line day in and day out. How much would 10-20% lower steam costs help your bottom line? The Miura solution can make this a reality. Talk to your Miura representative today to learn how Miura can make your boiler room more efficient and cost you less.

BOILER TYPE	FIRE-TUBE BOILER	ONCE-THROUGH BOILER
MAKE & MODEL	(2) Fire Tubes	(6) Miura LXH-250SG
TOTAL OUTPUT (LB/HR)	89,700	62,100
CATALOGUE EFFICIENCY	82%	86%
IN-SERVICE EFFICIENCY	70%	82%
BOILER INITIAL COST ¹	\$1,300,000	\$1,000,000
RUNNING COST / YR ²	\$1,800,000	\$1,400,000
PRODUCT FOOT PRINT (SFT)	Fire Tubes = 700 sft	Miura = 400 sft

¹ Budgetary estimate for boilers only. No ancillaries & installation cost are included.

² Based on estimated operation of 24hr, 365-day, 50% load, and \$0.5/therm.

BUSINESS CARD SLIT



MiURA

ON-DEMAND STEAM SOLUTIONS

USA: 1-888-309-5574 | Canada: 1-800-666-2182 | miuraboiler.com
Worldwide Headquarters | Japan: +81-89-979-7123 | www.miuraz.co.jp
Facilities located in: USA | Canada | Brazil | China | Japan | Korea | Mexico | Taiwan