MIURA GAS/LOW-NOX SERIES

High or Low Pressure Steam Boiler





XJ1 Micro Computer Boiler Control System

The most versatile industrial steam boiler in the world



The intelligent boiler that works with you

JAIURA
...Setting New Standards in Boiler Technology



Smaller is Better

MIURA's LX Series boilers occupy 50% less floor space than typical firetubes, and do not require tube pull space. Double capacity in the same space, or reduce space requirements by half for new construction. MIURA's compact design means much smaller radiation losses and larger fuel savings.



Standard Firetube/Watertube Technology

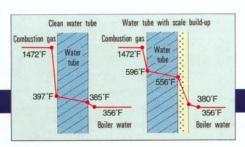


MIURA's Revolutionary Technology

Compare operational water content...

200 BHP MIURA boiler = less than 75 lmp. gallons 200 BHP Standard Firetube boiler = 2,000 gallons





Early Warning Scale Monitor

Scale is a problem all boilers have to deal with. Scale forms when boiler feedwater is not properly treated. Advanced scale formation acts as an

insulator; only an eggshell thickness of scale results in a 10% efficiency loss, higher fuel bills and possible damage to the boiler system.

As standard equipment, all MIURA LX models are equipped with a thermocouple attached directly to a tube. Should scale begin to form, the MIURA boiler will alert the operator - allowing the operator 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.

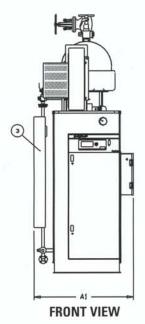


MIURA's computer-aided design results in optimal heating surface transfer with minimal water content for fuel-to-steam efficiencies of 85%. Typical firetube designs can deliver up to 83% fuel-to-steam efficiencies. However, in actual use, MIURA averages 10 to 40% fuel savings over standard firetube designs.

How does a 2% difference in fuel-to-steam efficiencies translate into a 10 to 40% ACTUAL FUEL SAVINGS? Contact your local MIURA representative for details.

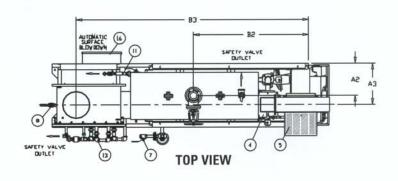


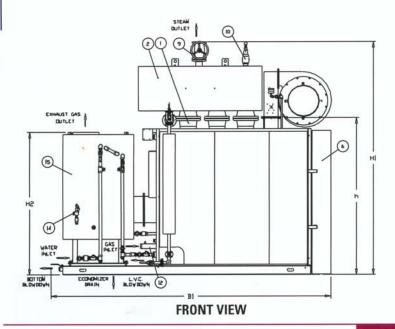
Dimensions



									(Inches
	A1	A2	А3	B1	B2	В3	H1	H2	h
LX-50 SG	42%	15½	22%	108½	49%	86	105%	74%	80
LX-100 SG	43	15½	22%	140	71%	117	108½	77	80
LX-150 SG	48%	16½	21%	150%	60	121	125%	77	85
LX-200 SG	48%	16%	21%	155½	65	132½	125%	85	85
LX-300 SG	81	22	22	152	82%	116	138	80	84½

*The drawing illustrated is LX-150 SG





NO.	NAME OF PART
1	BOILER VESSEL
2	STEAM SEPARATOR
3	LIQUID VOLUME CONTROLLER
4	WIND BOX
5	BLOWER
6	CONTROL BOX
7	MANUAL BLOWDOWN VALVE
8	MANUAL BLOWDOWN VALVE
9	STEAM OUTLET VALVE (OPTION)
10	MAIN SAFETY VALVE
11	AUTOMATIC BLOWDOWN
12	MAIN GAS TRAIN
13	FEEDWATER PIPING
14	ECONOMIZER SAFETY VALVE
15	ECONOMIZER
16	POWER BOX

AS I I S I STEAM DUTLET STEAM DUTLET STEAM DUTLET STEAM SEPARATOR SAFETY VALVE PRAIN SAFETY VALVE PRAIN STEAM SEPARATOR SAFETY VALVE SAFETY VALVE SAFETY VALVE SAFETY MIZER 20 X 24 X BOTTOM BLOVDOWN AUTOMATIC SURFACE BLOVDOWN AUTOMATIC SURFACE BLOVDOWN

Schematic View (Standard)

NO.	NAME OF PART	NO.	NAME OF PART
1	MAIN GAS VALVE	19	SAFETY VALVE
2	MAIN GAS REGULATOR	20	VALVE
3	GAS CONTROL VALVE	21	CHECK VALVE
4	MAIN GAS ORIFICE (LOW)	22	CHECK VALVE
5	TEST FIRING VALVE	23	CHECK VALVE
6	PILOT GAS VALVE	24	WATER VALVE
7	PILOT GAS REGULATOR	25	SAFETY VALVE
8	PILOT GAS CONTROL VALVE	26	SAMPLE WATER VALVE
9	PILOT GAS ORIFICE	27	BLOWDOWN CONTROL VALVE
10	PILOT AIR ORIFICE	28	BLOWDOWN STRAINER
11	MAIN GAS ORIFICE (HIGH)	29	SURFACE BLOWDOWN VALVE
12	HIGH-LOW CONTROL VALVE	30	GAS PRESSURE SWITCH
13	BOTTOM BLOWDOWN VALVE	31	GAS PRESSURE SWITCH
14	PRESSURE SWITCH	32	AIR PRESSURE SWITCH
15	PRESSURE SENSOR	33	L.V.C. BLOWDOWN VALVE
16	STEAM PRESSURE SWITCH	34	AIR VENT VALVE
17	STEAM PRESSURE SWITCH	35	GAS VENT VALVE*
18	PRESSURE GAUGE		

^{*}Available if required by local codes, or may not be supplied or optional according to boiler type.

**Numerous options are available upon request.

ITEM	LX(L)-50 SG	LX(L)-100 SG	LX-150 SG	LX(L)-200 SG	LX-300 SG	
Utilization Horsepower (*1)	50HP	100HP	150HP	200HP	300HP	
Maximum Pressure		170 PSIG MAWP, 150 P	SIG Maximum Operation	ng (15 PSIG MAWP)		
Equivalent Output (*2)	1,725 LB/HR	3,450 LB/HR	5,175 LB/HR	6,900 LB/HR	10,350 LB/HR	
Heat Output	1,674,000 BTU/HR	3,348,000 BTU/HR	5,022,000 BTU/HR	6,695,000 BTU/HR	10,050,000 BTU/HF	
Efficiency (fuel to steam) (*3)		85% (80% without Economize	er)		
Heating Surface Area	177 FT ²	248 FT ²	397 FT ²	397 FT ²	794 FT ²	
Operational Weight	4,070 LBS	6,070 LBS	9,600 LBS	10,000 LBS	13,200 LBS	
Shipping Weight	3,840 LBS	5,470 LBS	8,950 LBS	9,200 LBS	12,200 LBS	
	Di	mensions Given are	Approximate			
Width	42.5 in. (64 in.)	43 in. (72 in.)	48.5 in.	48.5 in. (71 in.)	81 in.	
Length	108.5 in.	140 in.	150.5 in.	155.5 in.	152 in.	
Height	105.5 in. (147 in.)	108.5 in. (159 in.)	125.5 in.	125.5 in. (190 in.)	138 in.	
Combustion System		Proprietary Forced	Draft, Step Fired Modu	ation Hi-Low-Off		
Ignition System		Electric Spa	rk Ignited, Interrupted	Gas Pilot		
Power Supply		230, 4	60, 575 V, 3 PHASE, 60	HZ		
Max. Electrical Consumption	7.0 KVA (5.1 KVA)	13 KVA (12.3 KVA)	19.2 KVA	19.2 KVA (15.9 KVA)	31.6 KVA	
Fuel Type (*4)		Natura	Gas or Propane (3-5 P	SIG)		
Gas Consumption (*5)	1,960 SCFH	3,920 SCFH	5,880 SCFH	7,850 SCFH	11,770 SCFH	
Gas Supply Pressure		3-5 PS	G Natural Gas or Prop	ane		
Main Steam Outlet Valve	2 in. (4 in.)	2 in. (6 in.)	3 in.	(8 in.)	4 in.	
Safety Valve Outlet	One 1 ¼ in.	One 2 in.	One :	2 ½ in.	Two 2 ½ in.	
Main Water Inlet	¾ in.		1 in.		1 ¼ in.	
Fuel Gas Inlet	1 ½ in.		2 in.		2 ½ in.	
Automatic Surface Blowdown		One	¾ in.		Two ¾ in.	
Manual Blowdown		Two	1 in.		One 1 in. & One 1 ¼ in.	
Chimney Diameter (ID)	12 in.	14	in.	20 in.	26 in.	
Flame Detector		Ultra	violet Flame Eye Senso	or		
Pressure Control		Adjustable F	ressure Transducer ar	d Switch		
Liquid Volume Control		Elec	trolytic Conductive Typ	е		
Overheat Protection		Low Wa	ter Cut Off & Thermoco	ouple		

"S" - Economizer

"G" - Natural Gas or Propane Fired

"(L)" - Low Pressure

Note:

- 1 Available 49 and 199 BHP rating.
- 2 Equivalent output calculated from and at 212°F (100°C) feed water at 212°F (100°C) steam.
- 3 Thermal Efficiencies are based on high heating values of fuels at 68°F (20°C) feed water.
- 4 UL and CGA/CSA approved for Natural Gas or Propane.
- 5 Gas consumption based on natural gas with high heating 1004 BTU/SCF.
- 6 All MIURA steam boilers are fully packaged and test fired at factory.
- 7 Built to meet or exceed UL & ASME standards in U.S.A.; CGA/CSA & B-51 standards in CANADA.
- 8 Low pressure steam is available in 50, 100 and 200HP only.

Patented in the U.S.A.





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The descriptions and specifications are approximate.

Specifications subject to change to incorporate engineering advances. Manufacturer reserves the right to change specifications and dimensions at any time without liability for equipment previously or subsequently sold.