

Boiler Model

LX-200SG-07

General Specifications			
Description	-	Standard Pressure	
Boiler Type	-	Once-through watertube boiler with no fixed water line	
Boiler Capacity	внр	200	
Design Pressure	PSIG	170	
Operating Pressure Range ^{1,2}	PSIG	70-150	
Boiler Heating Surface Area	ft ²	388	
Recommended Min. Feedwater Temperature	°F	180	
Minimum Design Feedwater Temperature	°F	140	
Flow Regulating Valve (FRV) Flow Rate ¹⁵	GPM	26 (FRV not available for Canada)	

Combustion Specifications				
Fuel	-	Natural Gas	Propane	#2 Oil
Fuel Supply Pressure	PSIG	3-5	3-5	-
Maximum Heat Input	BTU/hr	7,876,471	7,876,471	-
Maximum Heat Output	BTU/hr	6,695,000	6,695,000	-
Maximum Fuel-to-Steam Efficiency ³	%	85.0%	85.0%	-
Equivalent Output ⁴	lb/hr	6,900	6,900	-
Turn-Down	-	2.7:1	3:1	-
Flue Gas Excess Oxygen	%	5.0%	5.0%	-
Flue Gas Temperature ³	°F	260	260	-
Fuel Consumption ⁵	SCFH/GPH	7722	86	-
Combustion Air Volume	SCFH	97,440	97,450	-
Flue Gas Volume - Wet	SCFH	105,160	100,580	-
Flue Gas Volume - Dry ⁶	SCFH	90,180	90,180	-
Flue Gas Velocity	ft/s	19.0	18.2	-

Emissions ⁷				
Fuel	-	Natural Gas	Propane	#2 Oil
NOx	ppm	20.0	25.0	-
NOx	lbs/MMBTU	0.0243	0.0303	-
СО	ppm	50.0	50.0	-
СО	lbs/MMBTU	0.0369	0.0369	-
CO2	lbs/MMBTU	117.6	136.6	-
VOC	lbs/MMBTU	0.0054	N/A	-
тос	lbs/MMBTU	0.0108	0.0109	-
SO ₂ ⁸	lbs/MMBTU	0.0006	0.0005	-
PMt	lbs/MMBTU	0.0075	0.0077	-
PMf	lbs/MMBTU	0.0019	0.0022	-
РМс	lbs/MMBTU	0.0056	0.0055	-

Weights and Capacities			
Shipping Weight	lbs	8,000	
Operational Weight	lbs	8,800	
Operational Water Content ⁹	Gal (Imp. Gal)	89 (74.5)	
Fully Flooded Water Content ¹⁰	Gallons	199	



	Conne	ctions
Main Steam Outlet	-	3", Class 150 Flange
Safety Valve Outlet ¹¹	in NPT	2-1/2
Drip Pan Elbow Vent ¹¹	in NPT	4
Drip Pan Elbow Drain ¹¹	in NPT	3/4
Feedwater Inlet	in NPT	1
Fuel Gas Inlet	in NPT	2
#2 Oil Inlet	in NPT	N/A
Automatic "Surface" Blowdown	in NPT	3/8
Bottom Blow-Off	in NPT	1
LVC Blow-Off	in NPT	1
Economizer Drain (If Equipped)	in NPT	2
Chimney Diameter	in OD	20

	Electrical Rati	ngs at 575V ¹²		
Feedwater Configuration ¹³	-	Std. Check Valve	MI Check Valve	No Pump
Electrical Rating	А	26.5	26.5	17.7
Min. Circuit Ampacity	A	26.9	26.9	21.9

Electrical Components and Controls			
Power Supply	-	575, 460, 380, 230 or 208 Volts, 3 Phase, 60 Hz	
Blower Motor	HP	15	
Water Pump Motor ¹⁴	HP	7.5	
Water Booster Pump Motor	HP	0	
Oil Pump Motor	HP	0	
Control Amperage	А	1.1	
Combustion Control	-	3-Position Step Burner (High - Low - Off)	
Combustion System	-	Forced Draft Burner	
Ignition System	-	Electric Spark Ignited, Interrupted Gas Pilot	
Flame Safeguard	-	Miura BL Microcontroller with Miura ZUV Flame Senso	
Low Water Protection	-	Primary and Secondary Low Water Cutoff Electrodes	
Remote Monitoring	-	Optional	

Notes
1) Operating within this range ensures proper steam quality and limited relief valve leakage.
2) Setpoint must be below the listed maximum operating pressure to accommodate overshoot. Contact your Miura representative to confirm operating pressure range
for your specific application.
3) Based on 68°F feedwater, 80°F combustion air, and minimum steam pressure. Feedwater temperature during normal operation must be higher. Efficiency decreases and
flue gas temperature increases with increasing feedwater temperature and steam pressure. Contact your Miura representative to confirm values for your specific application.
4) Equivalent output is calculated based on conversion of 212°F feedwater to 212°F steam.
5) Fuel consumption assumes 1,020 BTU/SCF for natural gas, 91,500 BTU/US gal for LPG, and 140,000 BTU/US gal for #2 oil.
6) Dry flue gas volume is corrected for the operating O ₂ percentage and assumes F-factor of 8,710 SCF/MMBTU for natural gas/LPG and 9,190 SCF/MMBTU for #2 oil.
7) NOx and CO emissions are based on empirical test data corrected to 3% excess oxygen, all others are calculated using EPA factors.
8) SO ₂ factor assumes 0.002 grains/SCF for natural gas, 0.005 grains/SCF for LPG, 15ppm for #2 oil.
9) Operational water content is the average water content during normal operation for the entire boiler assembly including economizer.
10) The fully flooded water content is the total water and steam capacity for the entire boiler assembly including economizer.
11) Boiler safety valve and drip pan elbow connection sizes subject to change based on specific operating pressure.
12) Convert to amps at a different voltage by multiplying value by the ratio of 575V/new voltage.
13) Multiple installation (MI) check valve is required with higher feedwater pressures (i.e. when using DA tank) and may require a larger pump.
14) Water pump size may vary depending on feedwater piping options.
15) FRV Flow Rate is the instantaneous flow rate required by the feedwater pumps for normal water level control. The average flow rate will be lower.