

STANDARD FIRETUBE BOILERS

Gas, Oil, Heavy Oil, Combination

MP-800 series

A Highly Efficient and Reliable Firetube Boiler.

Hirakawa has delivered more than 15,000 firetube boilers. This experience is reflected in the outstanding quality and performance of the MP-800 boilers. This series is a highly efficient boiler proven in thousands of applications, as MP-800 series World Standard.

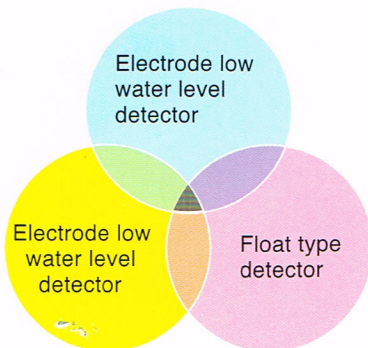
Features

- Supports various Failsafe system;
 - a) Water level
 - b) Flame safety device
 - c) Interlock circuits
- High efficiency operation under the light duty;
Efficiency : 90% to 88%
Load : 20% to 100%
- Saves energy by short start-up time.
- Reduces heat loss by Wet-back design.
- Low NOx emissions by Reverse-firing system (Patented).
- Turndown capacity : 5 : 1

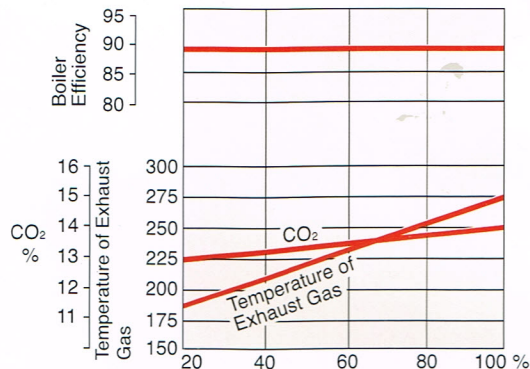


Triple low water protection

1. Electrode low water level detector (Inserted in Boiler shell)
2. Electrode low water level detector (In water column)
3. Float type detector

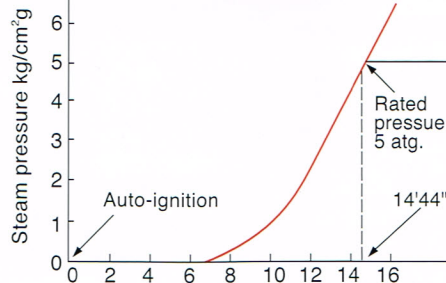


Performance Curve of MP-boiler

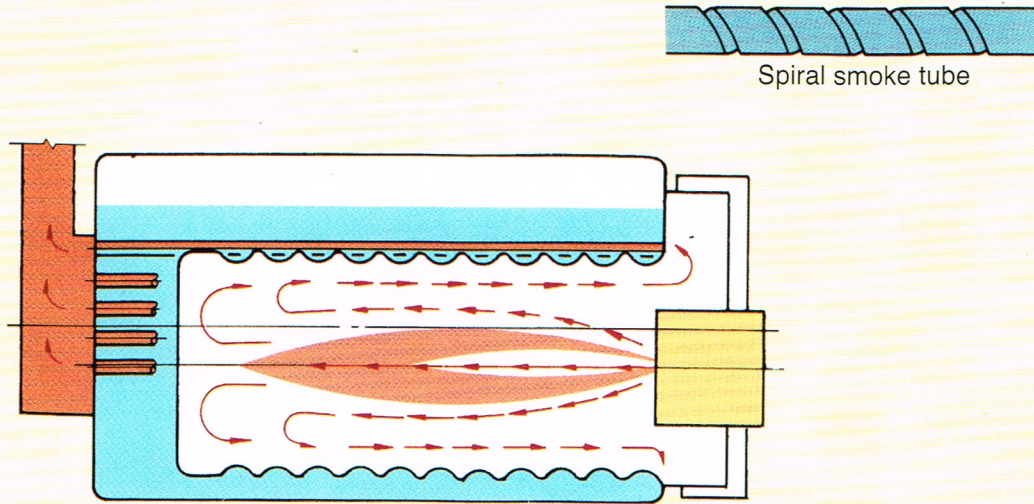


Steam up Characteristics at Auto-Ignition

<Auto-ignition at cold condition (20°C)>



Flame flow pattern



Specifications & Dimensions

		800S	800M	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	
Evaporation Steam per Hour at 100°C	kg/hr	600	900	1,200	1,800	2,400	3,000	3,600	4,200	4,800	5,400	6,000	7,200	8,400	10,000	12,000	15,000	18,000	
Output	kW	376.1	564.1	752.2	1,128.3	1,504.4	1,880.4	2,256.5	2,632.6	3,008.7	3,384.8	3,760.9	4,513.1	5,265.2	6,268.1	7,521.8	9,402.2	11,282.7	
Heating Surface	m ²	8.5	12.0	14.1	21.6	24.8	29.2	32.9	41.8	45.8	52.8	58.0	67.0	76.9	94.2	110.1	141.7	173.7	
Fuel Consumption	kg/hr	37.3	56.0	72.1	108	144	180	216	252	288	324	360	432	504	601	721	901	1,081	
Approx. Weight (Dry)	kg	3,500	3,900	4,900	5,500	6,000	6,400	7,100	8,650	9,550	10,350	11,300	12,300	14,700	17,200	19,600	23,300	29,700	
Water in Full	kg	1,600	2,500	2,900	3,500	3,900	3,950	4,000	5,750	6,050	6,850	7,200	8,200	9,000	11,500	13,700	14,800	18,500	
Dimensions	mm	A	1,280	1,370	1,470	1,570	1,620	1,670	1,720	1,820	1,870	1,970	2,020	2,120	2,270	2,500	2,650	2,850	3,000
		B	2,370	2,600	3,118	3,418	3,598	3,600	3,710	4,660	4,760	4,650	4,750	5,110	5,160	5,420	5,670	6,070	6,600
		C	3,050	3,360	3,578	3,878	4,058	4,110	4,220	5,164	5,308	5,825	5,945	6,375	5,875	6,125	6,395	6,930	7,980
		D	2,010	2,100	2,240	2,265	2,301	2,346	2,402	2,620	2,620	2,553	2,683	2,900	2,760	3,100	3,250	3,503	3,598
		E	1,928	2,020	2,140	2,292	2,317	2,457	2,639	2,684	2,699	2,666	2,716	2,838	2,970	3,202	3,384	3,616	3,878

* Fuel consumption: In case of heavy oil (Specific Gravity 0.85 H/ = 10200 kca//kg)

