

Equipment Selection/Sizing

Burner System Model No.	Burner Capacity (x 1,000 Btu/hr)		Manifold Size (in)	Gas Train Size (in)	Blower Motor (hp)	Burner Array Length (in)
	Min.	Max.				
SB505/2-b-cd	400	1,000	4	1	0.75	24
SB505/3-b-cd	600	1,500	6	1.5	1	34
SB505/4-b-cd	800	2,200	6	1.5	1.5	34
SB505/5-b-cd	1,000	2,499	8	1.5	1.5	44
SB505/6-b-cd	1,200	3,250	8	2	3	44
SB505/7-b-cd	1,400	3,750	8	2	3	54
SB505/8-b-cd	1,600	4,250	8	2	3	64
SB505/9-b-cd	1,800	4,750	8	2	3	74
SB505/10-b-cd	2,000	5,250	8	2	5	84
SB505/11-b-cd	2,200	6,000	10	2	5	94
SB505/12-b-cd	2,400	6,500	10	2	5	104

Model Numbering Options (SB505/n-b-cd):

- n:** Number of Modules per Burner System (e.g. 2, 3, 4, . . . 12)
- b:** Control Mode (O = On/Off, 1 = High/Low, 2 = Fully Modulating)
- c:** NEMA category (I = Indoor/NEMA 1, O = Outdoor/NEMA 3R)
- d:** Auxiliary Controls Options (G = Full UL spec Gas Train, C = Complete combustion controls, other options available on request)



Pyromat SB™ Model SB505/4-1-IGC Burner installed in Atmospheric Boiler.

- Leading edge NOx burner products since 1982.
- Over 50,000 burners shipped worldwide.
- Products recognized as “Best Available Control Technology.”
- Advanced research activities funded by Gas Research Institute, U.S. Department of Energy, Southern California Gas Co., Pacific Gas and Electric, Southern California Edison, and other Fortune 500 companies.
- Standard or custom products to quickly meet customer needs.

Tomorrow's Clean Energy Solutions, TODAY!



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SB-01-b



PYROMAT SB™ LOW NO_x BURNER

The clean energy choice for atmospheric boilers and water heaters,
Durable and Simple.



Patent Pending

Burner Features and Benefits

Low NO_x

- NO_x emissions reliably below 20 ppm.
- No compromise with CO and Hydrocarbons.
- Easily meets trend-setting California environmental regulations.

Compact, Modular, Flexible

- Fits all bottom-fired boilers without derating - new and retrofit applications.
- All capacities easily assembled from the basic modular system.
- Burner arrays flexibly configured to fit any firebox.

All Metal Construction

- Cast iron, mild and stainless steels, and specialty high temperature alloy firing surface.
- High quality construction, rugged and reliable for long life.
- Ease of handling, assembly, installation and maintenance.

Simplicity

- Single, individually sized, fuel/air delivery modules cover entire capacity range.
- Factory set constant ratio fuel/air control.
- No external flue ducts, hot fans or other unnecessary complications.
- No jack shafts, complex linkages or “characterizable” valves requiring frequent cumbersome field adjustments to keep burner tuned.
- Easy installation for new boilers and retrofits
- No filters.



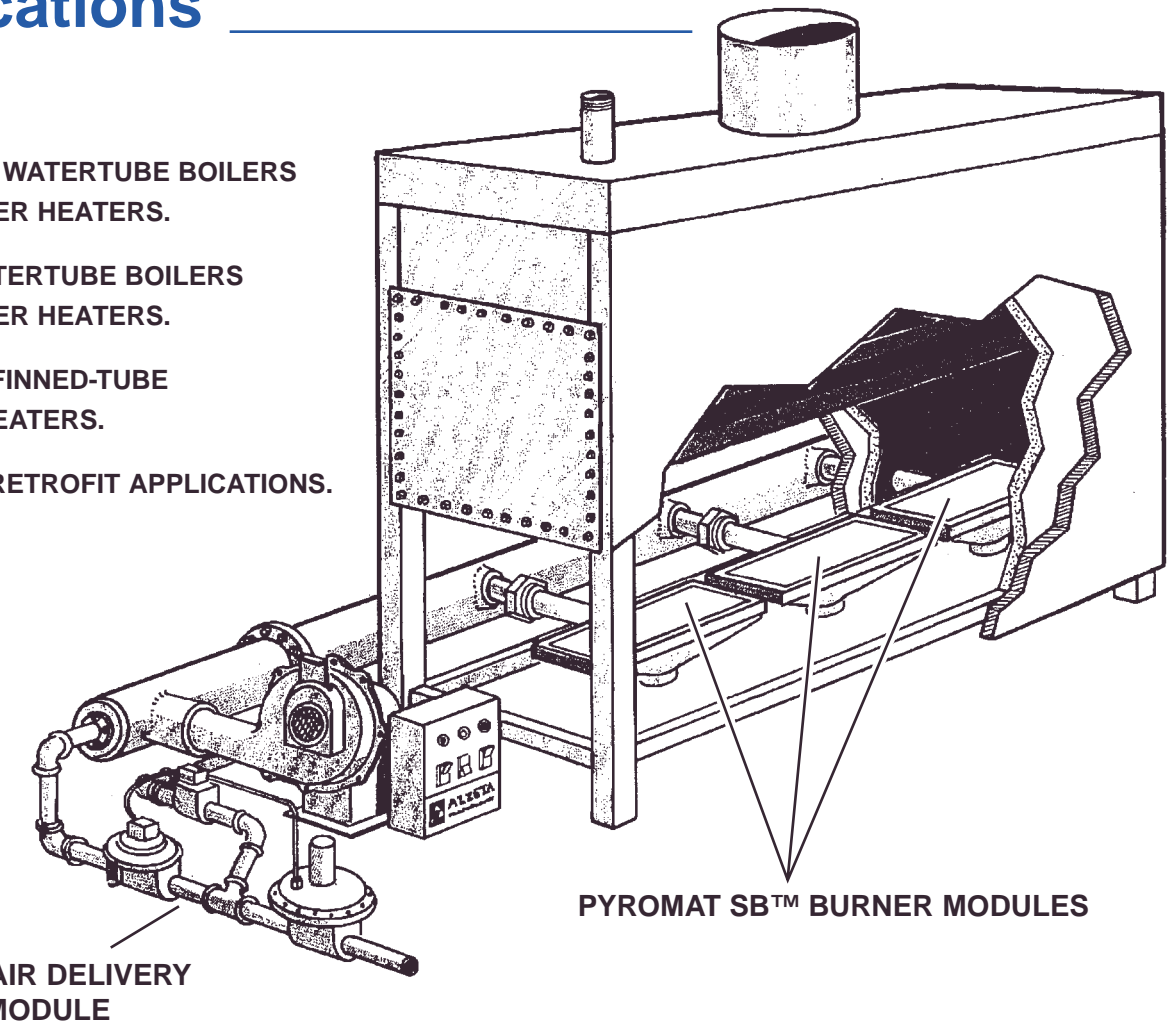
Pyromat SB™ Modules showing gas pilot assembly and remote flame rod (patent pending).



Pyromat SB™ Fuel Air Delivery Module.

Applications

- INCLINED WATERTUBE BOILERS AND WATER HEATERS.
- BENT WATERTUBE BOILERS AND WATER HEATERS.
- COPPER FINNED-TUBE WATER HEATERS.
- NEW OR RETROFIT APPLICATIONS.



Pyromat SB™ installed in typical Atmospheric Boiler.

Description and Specifications

Capacities and Fuels

- 1,000,000 to 6,500,000 Btu/hr.
- Natural gas at 14" w.c. (min) to 5 psig (max); propane and butane on request.

Fuel/Air Delivery Module

- Factory set fuel/air mixing assembly with 2.5 to 1 turndown.
- On/Off, High/Low, or Modulating control.
- UL specification main and pilot gas trains.
- Interrupted, spark-ignited, gas pilot assembly with remote flame rod.
- State-of-the-art, microprocessor-based, integrated primary combustion control.
- Factory assembled, wired and tested.

Burner Module Arrays

- Burner modules (500,000 Btu/hr capacity each) assembled onto a common manifold cover the full capacity range.
- Various module array configurations fit any firebox.