

ALZETA FireStar™

Proven Low NOx Burner Retrofit Package for Atmospheric Boilers

ALZETA Corporation, world leader in Ultra-Low NOx burner technologies, delivers its system solution for Bay Area atmospheric boilers; BAAQMD Regulation 9, Rule 7

- FireStar™ ALZETA's latest ceramic-metallic surface—modular system design, simple operation, quick and easy installation
- Premixed surface-stabilized combustion
- Less than 15 ppm NOx @ 3% O₂
- Low pressure drop, anti-plugging, surface
- Capacities from 1 million to 10 million Btu/hr
- Durable cast-iron body, steel manifold fits within the boiler
- Complete with combustion air blower, gas train, boiler and burner controls, and instrumentation
- Applicable to all atmospheric systems: RITE, AJAX, PARKER, and many others



ALZETA first developed its atmospheric boiler retrofit package in the 1990's for the Southern California market. The new FireStar™ is the system for 2011 and on. The FireStar package takes advantage of the latest in pre-packaged boiler controls; replacing and modernizing the existing boiler and combustion control system. Your boiler will continue to provide reliable service for many years to come.



Based on our SB 505 burner module, capacity is added in ½ million Btu/hr increments—increasing capacity simply means adding another module. ALZETA applies its design expertise to select a burner array to match the internal layout of the boiler. You never need to worry about localized hot spots, bypassing, or non-uniform performance.

Systems arrive ready to install including:

- Pre-assembled gas train
- Control Panel and water level sensors
- Partially assembled manifold (to permit easy transport up to the boiler site)
- Combustion air blower, filter, fuel-air mixing assembly

Installation typically takes one or two days, once the existing burner system is removed.

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CORPORATION

ALZETA Corporation's FireStar™ Atmospheric Boiler Retrofit Package

Many of the Bay Area atmospheric boilers have been roof-mounted, having modular system components that can be hand-carried to the site is an installer's delight!

A recent rooftop installation located at a Bay Area pharmaceutical company:

- 5 million Btu/hr
- 15 ppm NOx
- Full 4:1 modulation matches boiler load, minimizes cycling
- Outdoor, NEMA 3R
- Rooftop, stair access only
- Complete, modern control package; no wiring required between the original control unit and the new



ALZETA is located in Santa Clara, California. Founded in 1982 to commercialize low NOx burner technology, we manufacture premixed, surface-stabilized burner technologies and systems for furnaces, boilers, commercial water heaters plastic drying, and similar processes; as well as technologies for semiconductor manufacturing, chemical processing, pharmaceuticals, and VOC abatement. We are the only company in the world that manufactures a variety of burner surfaces, from flameless all radiant surfaces to high pressure combustion systems for gas turbines. NOx emissions below 7 ppm (@3% O₂) are now available.

ALZETA features a combustion laboratory for developing and advancing burner materials, as well as designing and testing burner systems for clients' applications.

Within our laboratory is a RITE boiler, (left), to demonstrate our FireStar™ burner system and provide training for the operator or installer.

Simplify your compliance with BAAQMD Regulation 9, Rule 7. Contact ALZETA today.

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