

FOOD INDUSTRY

MIURA BOILERS HELP CALIFORNIA-BASED FROZEN FRUIT PROCESSOR INCREASE PRODUCTION OVER COMPETITION



Miura Boilers reduce energy consumption for Titan Frozen Fruit by more than fifty percent, and helped the company comply with strict state water restrictions.

OVERVIEW:

Ideally located in the prime strawberry growing region of Santa Maria, California, Titan Frozen Fruit is a premium frozen fruit company that is able to cost-effectively produce the highest quality and safest frozen strawberry products available.

Comprised of a team of tenured fruit processing professionals, Titan Frozen Fruit began its mission to create a state-of-the-art facility in October 2013 that would take fruit processing to the next level - exceeding industry standards and requirements of their global customers.

OBJECTIVES/CHALLENGES:

To meet their goals of "processing for the next generation," Titan Frozen Fruit needed to equip their facility with the most innovative and efficient fruit processing technology; and as a new construction, they needed to start from the ground up.

Building a new construction, non-residential facility in California also comes with strict energy and water regulations. With California facing its driest year on record, and state legislation demanding severe conservation measures, Titan Frozen Fruit needed a partner to provide the technically advanced equipment to keep production levels above par with the competition and to cut energy and utility costs, whilst simultaneously adhering to legislative and natural resource limitations.



Actual boiler installation at Titan Frozen Fruit, Santa Maria, California

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SOLUTIONS:

Based on extensive industry experience, a primary focus for Titan was to move away from the traditional 800Hp boilers used within the industry, to smaller, more efficient units, yet still produce higher quantities of their superior products. Therefore, in order to maximize ROI, Titan Frozen Fruit chose to partner with Miura North America – who was able to offer the most comprehensive energy conservation approach with a full package of energy saving products including: three LX-100 on-demand steam boilers which produce steam in just 5 minutes, and maintain an 85 percent fuel-to-steam efficiency.

In addition to the on-demand steam and energy-efficient boilers, Miura provided a complete water treatment and remote monitoring system to significantly increase their conservation efforts, and produce the strawberry concentrate and purees they are known for at a high level of demand.

“I’ve been in this industry for over 45 years, and have researched - or worked with - all the major boiler companies. None of them were able to offer an energy efficient package to meet our sustainability and production needs like Miura,” explained Al Souza, Director of Operations for Titan Frozen Fruit.

RESULTS:

The complete system from Miura as a part of the new construction helped Titan Frozen Fruit receive their Permit to Construct in less than 2 months as compared to the typical 180 days in Santa Barbara County.

“The county has very strict emissions controls for new construction, yet with Miura’s systems, we were able to construct, and begin production in less than 8 months,” Souza remarked.

Titan was also able to become LEED certified for new construction with the installation of the complete Miura package. LEED is designed to guide and distinguish high-performance commercial and institutional projects, including office buildings, high-rise residential buildings, government buildings, recreational facilities, manufacturing plants and laboratories.

“I came from the same type of facility – processing strawberries – where we used 800hp boilers, and our energy bills were about \$42,000 a month. With the Miura boilers, our monthly costs have been decreased by more than half,” exclaimed Souza.

“We predict to have our equipment paid off in five years, and the money we save on energy and utility costs will help us reach this goal sooner,” explained Eric Duyck, VP of Operations.

“Annual service maintenance of our Miura products is only one day versus the 10-14 days we were down at my last company. We save a lot of money being able to produce product while our competition needs two weeks to start back up,” Duyck detailed further.

“A key highlight for our partnership with Miura, is the service! In my 45 years in the industry, I’ve never experienced the type of service and partnership we’ve had with Miura.

“I CAME FROM THE SAME TYPE OF FACILITY WHERE WE USED 800HP BOILERS. WITH THE MIURA BOILERS, OUR MONTHLY COSTS HAVE BEEN DECREASED BY MORE THAN HALF!”



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