

Honeywell

Juicing Up Productivity

SLATE™ Integrated Combustion Management System Boosts Performance at Mexican Juice Plant.

Honeywell technology puts the squeeze on inefficiency with an exceptional, seamless integration tool that maximizes productivity, increases safety, and conserves electricity – all while yielding an exceptional product.



Case Study





The production of juice requires undergoing a pasteurization stage to ensure high product safety. Juice is preheated by either steam or hot water and needs to reach temperatures of 185 – 201°F for 30 seconds to reduce the microbe count. Steam or hot water boilers employ this process and use controls to provide safety when dealing with fuel and air, as well as data analysis to cater for the sequence and staging of the boilers. When one of Mexico’s juice plants needed to increase efficiency and safety without sacrificing quality, they chose SLATE by Honeywell.

The Needs

Renovation of production line control functions.

Increased boiler efficiency levels.

Substantial electricity savings with a VFD installed on the combustion blower.

The Solution

The SLATE Combustion System from Honeywell provides greater boiler efficiency along with the ability to control a combustion blower with a Variable Frequency Drive (VFD). Plant operators can monitor two different types of fuels in their production lines, and create data logic for the safety side of the combustion process and the boiler. They can also create Proportional Integral Derivative (PID) loops for temperature control.

The SLATE AX Tool function blocks enable quick, efficient steam production.

The Fuel Air Ratio Control allows the customer to utilize a VFD to control the combustion blower and monitor the air to create savings in electricity and fuel.

The Benefits

- Lets plant operators control boiler operation and sequence safely while monitoring two different types of fuels.
- Helps create the ideal Fuel Air Ratio for optimal combustion.
- Decreases electricity consumption, resulting in substantial cost savings.

For More Information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

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SS-16-20-US
September 2016
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