



SPICING UP TEMPERATURE CONTROL FOR SNACKS



The Challenge

Getting the heat into (and out of) spicy foods is an art form and ICS Cool Energy added a special mix of temperature control solutions for a Far Eastern snack food producer to improve the quality of their mixing process.

“ The project was completed on time and to our specific requirements allowing us to keep on top of our production targets even during the summer which is a particularly challenging time. ”

Manufacturer's Chief Engineer

WE MAKE IT WORK

The Solution

Producing around 30,000 food products every day, the manufacturer's mixing process needs strict hygiene and temperature control to produce a consistently high quality product.

The process needs eight batches of water from the site's water tank to add to the batter mix every hour at 18°C. But high water temperatures meant the batter temperature was often reaching 50°C, causing major problems.

The plant room temperatures also could reach 32°C requiring a chiller that could comfortably manage process cooling with fault-free operation. The solution was fully integrated with a skid package and high efficiency 15kW i-Chiller to supply water at 1°C, cooling the tank water to 5°C.

- Skid mounted package with washable GRP lined 350 litre insulated buffer tank
- 15kW i-Chiller working with buffer tank via a plate heat exchanger
- Full compliance with legislation
- Energy efficient



The Result

Following the installation, the site's Chief Engineer said:

"The project was completed on time and to our specific requirements, allowing us to keep on top of our targets even throughout the summer which is a time when we've traditionally struggled. It has improved our process and does the job very well."

ICS Cool Energy added:

"The final batter now reaches the desired temperatures of approximately 30°C with absolutely no skin formation – creating the desired product consistency. Our range of i-Chiller technology is leading the way offering the food industry a new standard in process cooling, making our solutions the perfect combination for processes that demand truly reliable temperatures."

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