

Customer saves \$400,000 per day with nVent HOFFMAN SpectraCool Air Conditioners

SUCCESS STORY

Project Details

Location: Mexico

Industry: Automotive

Solution: 80 nVent HOFFMAN SpectraCool Indoor Air Conditioner standard models were installed in high heat generating areas of the tire plant

Situation

Struggling with costly unnecessary delays and downtime due to critical equipment failures, a tier one company in the automotive sector needed a reliable, high-performance cooling solution to maintain optimal temperatures inside the enclosures for their critical control and power equipment at their tire plant. The plant is located in central Mexico where local temperatures average 27 °C (81 °F) and rise even higher to 40 °C (104 °F) in the spring time.

"All the vulcanizing machines generate a lot of heat, so this temperature is distributed to other areas, requiring immediate maintenance," said a maintenance engineer from the tire plant.

On average, heat-related component failures cost the company up to \$400,000 per day in downtime and repair costs. They also caused the maintenance team ongoing stress and frustration, as they frequently received after-hours emergency calls and often could not get the necessary spare parts from the vendor, adding more cost, time and hassle to repairs.



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Solution

After researching equipment solutions that offered reliable cooling performance, as well as trustworthy aftermarket service, regional spare parts inventories and competitive standard warranties, the tire manufacturer identified nVent, the globally leading enclosure and climate control solutions provider. Already having experienced the benefits of nVent HOFFMAN products and services in other plants, they confidently switched suppliers.

To begin, nVent specialists performed a thermal audit of the tire plant, inspecting each enclosure to assess its thermal load and provide recommendations on ideally suited cooling solutions to maximize uptime and reduce maintenance costs. Based on these results, specialists recommended nVent HOFFMAN SpectraCool Indoor air conditioners, which offer a broad range of cooling capacities and configurations to reliably deliver enclosure cooling in demanding environments. The intelligent energy-efficient, low-noise cooling systems are available in several sizes (including a SlimFit version to maximize space), are easy to install and, with their filterless design, easy to maintain.

The manufacturer installed approximately 80 SpectraCool Indoor air conditioners throughout the key production areas of the tire plant. They also took advantage of the nVent HOFFMAN SpectraCool Remote Access Control (RAC) functionality to make it easier for engineering and maintenance to ensure systems ran consistently at optimal temperature levels. A factory-installed option, RAC is an integrated, parametric controller that seamlessly enables remote monitoring and management of SpectraCool air conditioners from virtually anywhere with a secure internet connect.



Results

With the SpectraCool air conditioners, the tire manufacturer achieved temperature and humidity stabilization and optimal equipment performance. Compared to the previous equipment, the new solutions cut equipment failures by 90%, and reliably keep systems and operations running smoothly. In addition, because of the superior quality and performance of the SpectraCool air conditioners, the tire manufacturer has saved maintenance time and hassle, and slashed spare part inventory needs.

“Replacing the old equipment with these new, improved climate control solutions has significantly increased our productivity and the stability of our operations,” the maintenance engineer said. “With these nVent HOFFMAN solutions, our team feels confident and comfortable leaving the plant for the day, knowing everything will run as expected, and that any supplies we need for preventive maintenance will be delivered as promised.”



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