



Another Success Story • Siegel-Robert

“Control of temperature and humidity are an important factor in producing a quality product at Siegel Robert’s new plastic injection and plating facility.

The team of Air Masters, Gateway Mechanical and Automation Solutions Group designed the systems to help meet their demanding needs.”

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Most people don't associate industrial plants with a clean working environment that is temperature controlled for worker comfort. But that is exactly what Siegel-Robert's wanted for their new plastic injection parts and plating plant in Farmington, Missouri.

The 180,000 sq. ft. plant had been a bicycle manufacturing facility, with poor lighting, inadequate heating, no cooling, and a dusty and dirty environment for the workers. The new owners completely gutted the plant, removing all the old lighting, heating, and exhaust systems. The entire structure was cleaned, sealed, and painted and new high intensity lighting was installed; the work made the plant look bright, clean and brand new.



The Air Masters team was called in to design and install a modern heating, cooling, and ventilating system for the plant. After a review of the needs, they proposed a two step approach to the problem. Heating was provided by installing modern gas fired unit heaters at the perimeter of the building while

cooling and ventilation was provided by installing a series of six air handling units and two 250-ton air-cooled chillers.

Working closely with the plant manager and his staff, the air handling units were located so they would provide cooling right where the people worked. Outside air ducts at each air handler provide outside air to meet ventilation requirements and to pressurize the plant, thus reducing costly air infiltration. In addition, the plant can go to 100% outside air to provide "free cooling" when outside temperature conditions permit.



Cold water from the chillers was piped to the air handlers in a primary/secondary piping scheme, allowing the plant manager to precisely control the cooling capacity. All told, over 1/3 mile of pipe was installed to monitor and regulate the temperature conditions in the plant. Now, with the touch of a computer key, the plant manager can turn his heating and cooling systems on and off, monitor temperatures and adjust settings to keep his workers happy and productive.