

TECOCHILL®

- Gas engine-driven chiller
- 150 refrigeration tons
- 62,000 sq. ft. manufacturing and research facility
- Clarence, New York



Manufacturing batteries is a delicate task. The lithium ingredient needs to be protected in a low-humidity environment. A natural gas-powered chiller helps meet the less than one percent humidity requirement and helps the manufacturer reduce its operating costs.

Recognized as the world leader in lithium battery manufacturing and research and development, Wilson Greatbatch Ltd. installed a 150-ton gas-powered, engine-driven cooling system to help in the production of chilled water and to keep humidity under control.

Wilson Greatbatch needed the most efficient means available to produce chilled water and keep the humidity level to less than one percent. Installed in 1991, the 150-ton natural gas-engine driven TECOCHILL® unit replaced several electric-powered reciprocating compressors.

Operating as part of a central refrigeration and ice storage system, the TECOCHILL® helps chill water

and maintains about 9,600 sq. ft. of manufacturing space at a low humidity level.

“Since installing the chiller, we save energy and reduce our peak electrical demand charges,” says Paul Streit, maintenance manager for Special Projects of Wilson Greatbatch.

Located in Clarence, N.Y., Wilson Greatbatch has saved more than \$20,000 annually in utility bills since installing the natural gas-driven chiller. The battery maker is also able to take advantage of the waste heat from the TECOCHILL®, recovering the heat to reheat the dry rooms.

“Although gas-powered equipment has a higher first cost, the TECOCHILL’s high efficiency and





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our monthly energy savings paid off the difference in purchase price in less than two years. Additional utility savings should pay for the entire system in less than four years," Streit says.

The TECOCHILL® is used during peak hours to supplement the

existing ice storage system. During off-peak hours the chiller is used to help produce ice. The chilled water is then used along with desiccant dryers to reduce relative humidity.

