

Tenneco

Equipment Renewal Program • Milan, OH

Equipment renewal program reduces risk & delivers commitment of reliability.

Tenneco is a global manufacturing company with 19,000 employees worldwide. They are one of the world's leading designers, manufacturers and distributors of automotive emission control and ride control products and systems for the automotive market.

Challenge

Tenneco operates around the clock in its production of automotive components. The plant's 215-ton helical rotary chiller, which serves the production process, is more than 11 years old. This aging chiller was cause for concern as any unexpected failure or repair would be extremely costly. An emergency repair in a failure situation would result in a total bill, including rental cooling, of over \$80,000. Even more importantly, any downtime on Tenneco's part would result in daily \$30,000 charges & production shut down for not only their plant but also that of their customers. With the capital cost of replacing the still-useful machine at well over \$100,000, Tenneco was looking for a cost-effective equipment refurbishment solution.

Solution

Gardiner offers a variety of equipment renewal programs. For this situation, Trane's factory R'newal™ Service Program was recommended. R'newal is a comprehensive service to replace wear materials, restore compressor performance and the reliability of a brand new chiller. This investment allowed for a complete remanufacturing of the compressor including a new unit serial number and a five (5) year warranty with a service agreement. It essentially delivers to Tenneco the manufacturer's original commitment of reliability and performance and is backed by a long-term warranty. This solution affords Tenneco many of the benefits of a brand new chiller at a fraction of the cost.



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Tenneco is recognized for its advanced technology, high quality products and outstanding customer service. Tenneco has a very balanced customer base, serving original equipment manufacturers on a global basis, including General Motors, Ford Motor Co., Volkswagen, DaimlerChrysler, PSA Peugeot Citroen, Toyota, Honda and Nissan.

Building Specifications

Building Type

Manufacturing Plant

Constructed

1946

Facility Size

250,000 sq. ft.

Other Data

The most recent addition was done in 1972 (11 additions in total)

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Results

The R'newal Program was successful for Tenneco. The solution was cost effective as expected and did not interrupt production. As there was never any down time, there were no added costs or lost production charges imposed as a result of the project. Most importantly, Tenneco maintained their reputation with their customers as providing quality products on time, and now have the peace of mind that they have pro actively reduced their risk.

***“Tenneco prides itself on providing quality products and service to our customers.
I believe Gardiner shares our commitment.”***

Greg Bahr, Maintenance Manager



Systems Overview

- **215-ton Helical Rotary Water Chiller**
- **Trane Factory R'Newal Programs**
 - Unit and Starter Evaluation
 - Factory Performed Compressor Renewal (Includes new Serial Number)
 - Re-gasket Unit
 - Unit Upgrades and Modifications per OEM Service Bulletins
 - Replace Existing Refrigerant
 - Startup and System Check Out
 - Factory Compressor Warranty (Parts & Labor)

GARDINER

For more information on Gardiner Solutions, visit
www.WHGardiner.com or contact us at 440.248.3400