

Driving Innovation: Trane Facilitates Geely's Transition to Electrified Manufacturing



Challenge

Geely Auto Group has been significantly investing in intelligent manufacturing as part of its transition from traditional combustion engine vehicles to new energy vehicles (NEVs). This transition necessitates cooling systems that can operate continuously 24/7 in the painting workshop, maintain strict humidity control and cooling in battery and cell workshops, and provide precise environmental control in energy storage and battery recycling workshops.

Solution

Trane has been supplying Geely with chillers for a decade, fostering a strong long-term partnership. In 2022, Trane successfully renewed the chiller framework agreement, which includes CDHF 3600 RT units, thereby laying the groundwork for securing Geely's battery factory projects and meeting their operational requirements.

High-efficiency CDHF and CVHF chillers were installed across 12 Geely production sites, operating continuously 24/7 and meeting stringent humidity and environmental control requirements.

Result

Utilizing low-GWP refrigerants (R514A) and boasting top-tier energy efficiency, these chillers enhance operational efficiency in Geely plants and support Geely's zero-carbon transition with advanced thermal management, renewable energy, and electrified heating technologies.

In recognition of its contributions to supporting Geely's energy-saving and sustainability goals, Trane was designated as an outstanding vendor by Geely.

Project Highlights

- Market:** China
- Segment:** Automotive (NEV)
- Products and Services offered:**
 - 41 x CVHF simplex chillers
 - 7 x CDHF duplex chillers

Featured Products



Product Name: Duplex
CentraVac® Water-Cooled
Centrifugal Chiller
Model CDHF

At a glance:

- Capacity Range: 1450-3950 RT
- Refrigerant: R514A
- Centrifugal compressor
- Series counterflow for highest efficiency
- Trane smart controller with Adaptive Controls™
- Designed for large capacity applications such as district cooling plants and industrial processes



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