SUCCESS STORY
Industrial Cooling

SECTOR
Automotive Industrie

CONTEXT

Customer : BYD

Sector of activity : Motor vehicle

Location : Singapore

Year : 2025

Installed equipment :
IPE+ R410a

Description of the equipment :
*R410a refrigeration unit
*Variable speed compressors

Total capacity :
350kW | 20°C/15°C @+35°C

THE CUSTOMER

BYD, a major player in the automotive industry and electric mobility, imposes high standards on its industrial partners in terms of reliability, energy performance, and process continuity. The cooling of plastic injection presses is a critical element of the production chain, both for the quality of the manufactured parts and for maintaining stable industrial output rates. The solution developed by CTA fits within this demanding industrial environment, ensuring precise thermal regulation and high system availability.

Our 350 kW chiller is used to cool a water loop supplying plastic injection presses operated by an industrial subcontractor of the automotive manufacturer BYD.

This new installation is intended to replace a York chiller that had been in operation for more than fifteen years. The resulting performance gain, reflected by an EER significantly higher than that of the existing solution, makes it possible to achieve a return on investment of less than twenty-four months, while sustainably improving the energy competitiveness of the production process.