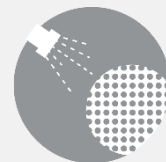




SUCCESS STORY
Water cooling



SECTOR
Surface treatment



CONTEXT

Customer TEC'CHIM
Sector of activity
Industrial surface treatment

Located France, Sorbiers (42)
Year 2018
Equipment installed
IPE + 180-2-2 DS

Description equipment
HFC R410A chilled water
production unit

Total capacity
440 kW – 20/15°C @35°C

Investment cost
20k thanks to the CEE bonus

THE CUSTOMER

Tec'Chim, based in Sorbiers in the Loire region, specializes in chemical and electro-chemical surface treatment of a wide range of metals. Its extensive know-how in electrolysis and anodizing makes it one of the leading players in this market.

In its quest for continuous process optimization, Tec'Chim called on CTA to overhaul and cool its production tools. CTA proposed a turnkey solution, including the involvement of a local refrigeration specialist to optimize the redesign of the cold loop.

Our experts proposed an industrial HFC R410A chiller equipped with a total heat recovery exchanger. The chilled water loop is used to cool the surface baths, while the recovered kW are used to preheat certain process baths and the workshop.

By optimizing this installation and using all the levers at our disposal, **we enabled Tec Chim to make substantial energy savings (-25,000 euros per year) with a limited investment, since the total installation cost 20,000 euros, thanks to the CEE premiums.**

