



# Enclosed Modular Chiller Plant with Waste Water Heat Exchangers

## Project Needs

For this project, the **speed of project completion** was paramount.

The owner required a process chiller plant to cool waste-water from a semi-conductor facility before the waste-water flowed into marshes around the complex. The problem was the water flowing into the marshes was too warm, causing excessive algae growth that was killing plants and fish.

The EPA stepped in and the owner had approximately seven months to comply with orders to correct the problem or have their process shut down, which would have cost the owner millions of dollars.

## The Solution

Systecon designed a chilled water plant that runs the process waste-water through heat exchangers to cool the water to acceptable temps.

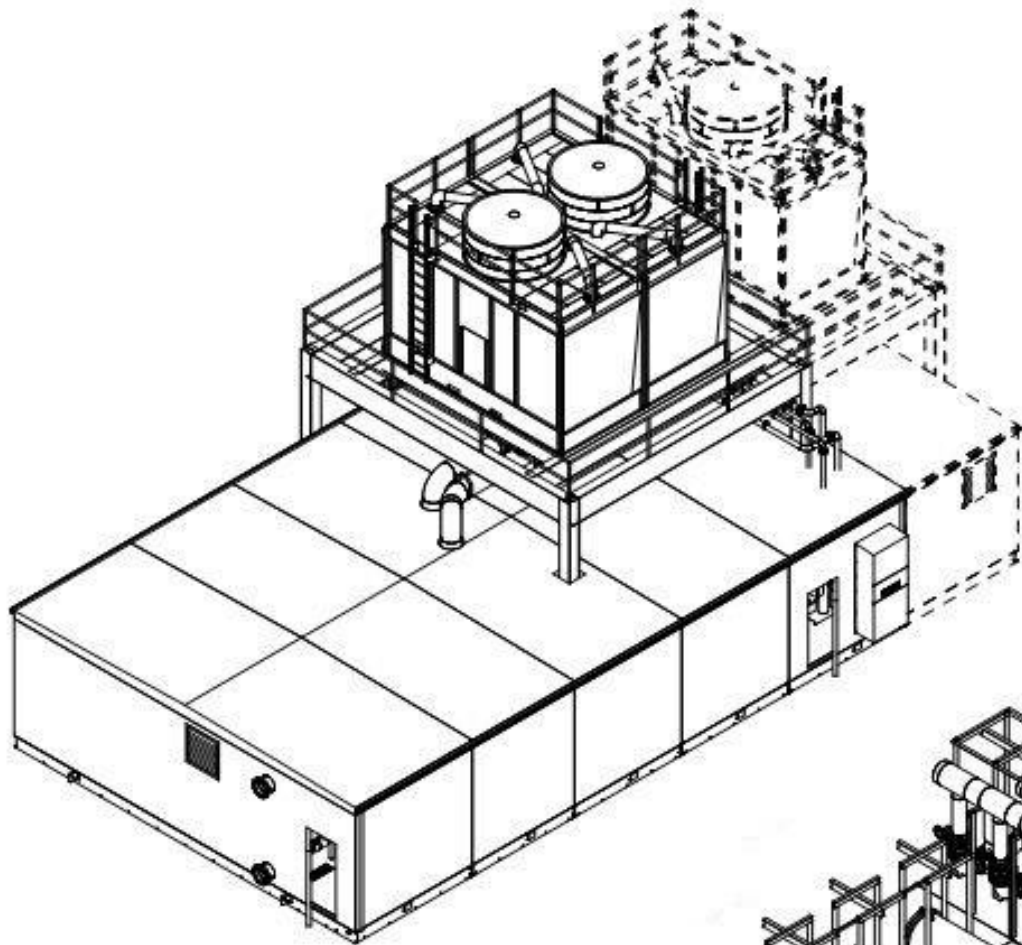
The owner never lost a day of production - the project was completed on time and within budget.



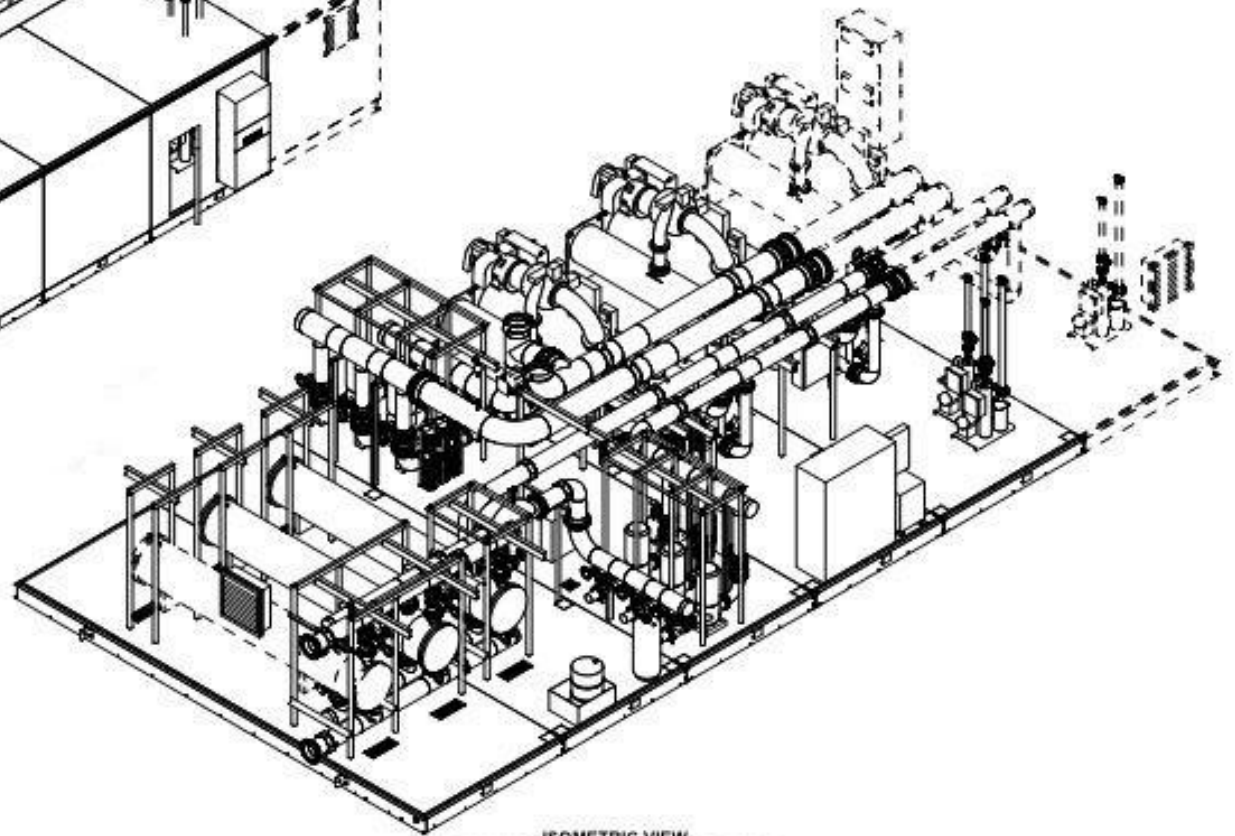
## Key System Components

- (2) 625 ton York M/N: YKGCEXP8-ESG centrifugal chillers
- (2) Marley M/N: NC8403RAN cooling towers
- (2) Kennedy Tank M/N: NFN33-192 heat exchangers 304 stainless steel tubes

This modular chiller plant was designed so an additional chiller, cooling tower and heat exchanger could be added in the future if needed.



ISOMETRIC VIEW



ISOMETRIC VIEW  
(ENCLOSURE & CT EQUIPMENT REMOVED FOR CLARITY)

