



Expert thermal
process energy
management

Project:
Custom Cooling Tower and
Tower Tank System

Client: Polar Sapphire
Year: 2021







Solution: Custom Outdoor Clean
Water Tower System and an
indoor skid, with pumps, tank &
heat exchanger



Features:

- One outdoor 811TR clean water cooling tower system with corrosion protection
- An indoor clean water tower skid
- One Low Temperature Tower Bypass Valve
- One Plate and Frame Heat Exchanger
- One 316 Stainless Steel Tank
- Two Thompson Strainer Side-Stream Flow (Dirty Side & Clean Side)
- One Double Y-strainer (Full Flow - Dirty Side)
- One Single Y-strainer with by-pass (Clean side)
- One BCP-3 Conductivity Water Treatment Controller (Nema 4X) with three Plastic Chemical Pumps
- Four Centrifugal Pumps (Tower, Process, and dedicated backups)

Highlights:

-  Custom Engineered
-  Factory Tested
-  Touch Screen HMI
-  Start-up
-  Commissioning
-  PLC controls

Supply of a clean water tower system to cool the heat exchangers of several machines in a facility in Oakville. Scope of supply included: one outdoor 811TR clean water cooling tower system, and an indoor clean water tower skid, with four centrifugal pumps, tanks & heat exchangers mounted, filtration, and piped with all controls, chemical treatment controls at a leaving water temperature of 90F and flow of 1300 GPM at 40 PSI discharge pressure. , start-up and commissioning

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