

Project:

Fluid Cooler Module to cool the telescope cabinets & compressors

Client: CCAT Observatory Inc.

Year: 2020







Solution: Custom Outdoor Dry Cooler Module for easy integration of further 150kW fluid coolers up to 450kW



Features:

- One outdoor custom dry fluid cooler mounted on a shipping container mechanical room
- One drycooler (heat exchanger)
- Two centrifugal pumps (one main, one back-up)
- One Expansion/buffer tank
- Air separator

Highlights:

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

Custom dry cooler module to cool the helium compressors and electrical cabinets of the CCAT-Prime telescope. The system will go on a mountain at 18,000 ft with temps of -21°C to 9°C and is designed for easy integration of further 150kW fluid coolers up to 450kW. Scope of supply included a fluid cooler mounted on a shipping container mechanical room with two centrifugal pumps, expansion/buffer tank, air separator, sensors and PLC system with touch screen HMI.