CryoDax 60 Water-Cooled Chiller/Heater

Specifications and Features

- Fluid Setpoint Range: -70°C to +80°C
- Temperature Stability: ±1.0°C (at temperatures below -30°C)
- Net Cooling Capacities*: 50 kW at -30°C, 30 kW at -40°C, 8.5 kW at -60°C
  4.5 kW at -70°C
  (*Ratings on 60 Hz with standard pump)
- Nominal Heating Capacity: 3,000 Watts
- Recirculating Flow: 8 Gpm at 45 PSI, 4 Gpm at 90 PSI
- Stainless Steel Reservoir: 20 Gallons (vented)
- Recirculating Fluid: Syltherm HF / XLT or equivalent
- Recirculating Supply/Return Fittings: 1” Stainless Steel FNPT
- Condenser Water Requirements: Up to 22 Gpm at 70°F inlet, Up to 26 Gpm at 85°F inlet
  20 PSI ΔP, supply-to-drain
- Facilities Water Fittings: 1” Stainless Steel FNPT
- Electrical Service: 440/480 VAC 60 Hz, 380/420 VAC 50 Hz
  3 phase, 120 amp service
- Physical Parameters: 74” H x 60” W x 65” D
  2,300 lbs. dry weight approx.
- Warranty: 12 Months, Parts and Labor
- Refrigeration: Two 30 Hp semi-hermetically sealed, two-stage compressors in a parallel
  configuration, R-507 refrigerant
- Condenser: Brazed plate heat exchanger with a refrigerant pressure actuated water flow
  control valve to automatically adjust flow
- Recirculation: 3.0 Hp SS seal-less magnetic-drive turbine pump, turbine fluid flowmeter in recirculating
  return, pressure gauge, overpressure switch, brazed plate heat exchanger, copper piping

Please contact Mydax to customize this system for your specific needs

- Controller: PID type controller with a 5.7” color graphic touch-screen display providing fully proportional cooling and heating
  with the Mydax patented refrigeration circuit
- Interfacing: Remote contacts providing system and external recirculation start/stop, run and alarm status, RS-232 serial interface for remote control and monitoring
- Construction: Welded steel frame with aluminum panels, frame and panels are powder coated for durability, mounted on I-beam supports.
- Safety Interlocks: Reservoir low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency off switch

Patents: #4,742,689, #4,959,972, #4,934,155