CryoDax 50 Water-Cooled Chiller/Heater

Standard Specifications and Features

- Fluid Setpoint Range: -70°C to +80°C
- Temperature Stability: ± 1.0°C (at temperatures below -30°C)
- Net Cooling Capacities:
  - 34.6 KW at -30°C
  - 21.0 KW at -40°C
  - 13.0 KW at -50°C
  - 6.8 KW at -60°C
  - 4.0 KW at -70°C
  (*Ratings on 60 Hz with standard pump)
- Nominal Heating Capacity: 3,000 Watts
- Recirculating Flow/Pressure:
  - 8 Gpm at 45 PSI
  - 4 Gpm at 90 PSI
- Stainless Steel Reservoir: 20 Gallons (vented)
- Recirculating Fluid: Syltherm XLT or HF or equivalent
- Recirculating Supply/Return Fittings: 3/4” Stainless Steel FNPT
- Condenser Water Requirements: Up to 22 Gpm at 70°F inlet,
  20 Psi ΔP, supply-to-drain
- Facilities Water Fittings: 1” Stainless Steel FNPT
- Electrical Service: 440/480 VAC, 60 Hz, 3 phase, 100 amp service
- Physical Parameters: 74“ H x 60” W x 62“ D 
  2,200 lbs. dry weight approx.
- Warranty: 12 Months, Parts and Labor
- Refrigeration: Two 25 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
- Safety Interlocks: Reservoir low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency off switch

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 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 locking casters and adjustable leveling feet


Please contact Mydax to customize this system for your specific needs

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

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