CryoDax 60X Water-Cooled Chiller/Heater

Specifications and Features

• Fluid Setpoint Range  -85°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  16 kW at -50°C
  15 kW at -60°C   15 kW at -70°C
  11 kW at -80°C
(*Ratings on 60 Hz with standard pump)
• Nominal Heating Capacity 3,000 Watts
• Recirculating Flow 30 Gpm at 25 PSI
• Stainless Steel Reservoir 20 Gallons (sealable with nitrogen blanket)
• Recirculating Fluid Syltherm 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,
  3 phase, 130 amp service
• Physical Parameters 74" H x 60" W x 96" D
  2,600 lbs. dry weight approx.
• Warranty 12 Months, Parts and Labor
• Refrigeration R-507 / R-508B refrigerants
• 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 centrifugal pump,
  turbine fluid flowmeter in recirculating return, pressure gauge, overpressure switch,
  brazed plate heat exchanger, copper piping

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

Safety Standards
• UL-508A Industrial Control panel,
  National Electrical Code NFPA-70,
  Electrical Standard for Industrial Machinery NFPA-79

Please contact Mydax to customize this system for your specific needs