CryoDax 30X Very Low Temperature Chiller/Heater

Advanced Temperature Control Technology

Standard Specifications and Features

- Fluid Setpoint Range: -85°C to +80°C
- Temperature Stability: ±1.0°C
- Net Cooling Capacities:
  - 25 kW at -30°C
  - 16 kW at -40°C
  - 7.5 kW at -60°C
  - 7.5 kW at -70°C
  - 6 kW at -80°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 (sealable with nitrogen blanket)
- Recirculating Fluid: Syltherm XLT or equivalent
- Recirculating Supply/Return Fittings: 3/4" Stainless Steel FNPT
- Condenser Water Requirements: Up to 19 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, 75 amp service
- Physical Parameters:
  - 74" H x 48" W x 60" D
  - 1,700 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 magnetic-drive turbine pump, turbine fluid flowmeter in recirculating return, pressure gauge, overpressure switch, SS heat exchanger, copper piping
- Safety Interlocks: Reservoir low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency

- 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 leveling feet
- 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.