CryoDax 120 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**:
  - 100 KW at -30°C
  - 60 KW at -40°C
  - 17 KW at -60°C
  - 9 KW at -70°C
  (*Ratings on 60 Hz with standard pump)
- **Nominal Heating Capacity**: 3,000 Watts
- **Recirculating Flow/Pressure**: 30 Gpm at 35 PSI
- **Stainless Steel Reservoir**: 45 Gallons (vented)
- **Recirculating Fluid**: Syltherm XLT or HF
- **Recirculating Supply/Return Fittings**: 1 1/2” Stainless Steel FNPT
- **Condenser Water Requirements**:
  - Up to 42 Gpm at 70°F inlet,
  - Up to 50 Gpm at 85°F inlet
  - 20 Psi ΔP, supply-to-drain
- **Facilities Water Fittings**: 1 1/2” Stainless Steel FNPT
- **Electrical Service**: 440/480 VAC, 60 Hz
  - 380/420 VAC 50 Hz
  - 3 phase 240 amp service
- **Physical Parameters**: 75” H x 60” W x 102” D
  - 3,300 lbs. dry weight approx.
- **Warranty**: 12 Months, Parts and Labor
- **Refrigeration**: Four 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 canned-motor centrifugal pump, turbine fluid flowmeter in recirculating return, output flow adjust valve, 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 I-Beam supports
- **Safety Standards**: ETL, UL-508A, National Electrical Code NFPA-70, Electrical Standard for Industrial Machinery NFPA-79

Please contact Mydax to customize this system for your specific needs

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