CryoDax 12 Water-Cooled Chiller/Heater

Standard Specifications and Features

- **Fluid Setpoint Range**  -70°C to +80°C
- **Temperature Stability**  ± 1.0°C
- **Net Cooling Capacities**
  - 9.2 kW at -30°C
  - 5.0 kW at -40°C
  - 4.0 kW at -50°C
  - 1.5 kW at -60°C
  - 400 W at -70°C
  (*Ratings on 60 Hz with standard pump)
- **Nominal Heating Capacity**  3,000 Watts
- **Recirculating Flow/Pressure**
  - 4 Gpm at 25 PSI
  - 2 Gpm at 45 PSI
- **Stainless Steel Reservoir**  5 Gallons (vented)
- **Recirculating Fluid**  Syltherm HF or XLT
- **Recirculating Supply/Return Fittings**  3/4” Stainless Steel FNPT
- **Facilities Requirements**
  - Up to 8.0 Gpm at 70°F inlet, 20 Psi ΔP
- **Facilities Supply/Return Fittings**  3/4” Stainless Steel FNPT
- **Electrical Service**  440/480 VAC, 60 Hz, 3 phase, 30 amp service
- **Physical Parameters**  62” H x 36” W x 42” D, 980 lbs. dry weight approx.
- **Warranty**  12 Months, Parts and Labor
- **Refrigeration**  12 Hp semi-hermetically sealed compressor, R-507 refrigerant
- **Condenser**  Brazed plate heat exchanger with a water flow control valve to automatically maintain condensing temperature
- **Recirculation**  1.5 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**
  - Fluid low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency off switch

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 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

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