**CryoDax 20X Very Low Temperature Chiller/Heater**

**Standard Specifications and Features**

- **Fluid Setpoint Range**: -85°C to +80°C
- **Temperature Stability**: ± 1.0°C
- **Net Cooling Capacities**
  - 15 kW at -30°C
  - 9 kW at -40°C
  - 5 kW at -60°C
  - 5 kW at -70°C
  - 3 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 13 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, 55 amp service
- **Physical Parameters**: 74” H x 44” W x 56” D, 1,550 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 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 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.