CryoDax 20 Water-Cooled Chiller/Heater

Standard Specifications and Features

- **Fluid Setpoint Range**: -70°C to +80°C
- **Temperature Stability**: ± 1.0°C
- **Net Cooling Capacities**
  - 15.1 KW at -30°C
  - 9.0 KW at -40°C
  - 5.5 KW at -50°C
  - 2.6 KW at -60°C
  - 1.5 KW at -70°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 (vented)
- **Recirculating Fluid**: Syltherm XLT or HF
- **Recirculating Supply/Return Fittings**: 3/4” Stainless Steel FNPT
- **Condenser Water Requirements**: Up to 15 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, 50 amp service
- **Physical Parameters**: 74” H x 41” W x 53” D, 1,250 lbs. dry weight approx.
- **Warranty**: 12 Months, Parts and Labor
- **Refrigeration**: 20 Hp semi-hermetically sealed compressor, 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 magnetic-drive turbine pump, turbine fluid flowmeter in recirculating return, pressure gauge, overpressure switch, brazed plate 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

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 adjustable leveling feet

**Safety Standards**

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