# CryoDax 8 Water-Cooled Chiller/Heater

## Standard Specifications and Features

- **Fluid Setpoint Range**: -70°C to +80°C
- **Temperature Stability**: ± 1.0°C
- **Net Cooling Capacities**:
  - 5.7 kW at -30°C
  - 3.0 kW at -40°C
  - 2.0 kW at -50°C
  - 800 W at -60°C
  - 250 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 4.0 Gpm at 70°F inlet, 20 Psi ΔP
- **Facilities Supply/Return Fittings**: 1/2” Stainless Steel FNPT
- **Electrical Service**: 208/230 VAC, 60 Hz, 3 phase, 40 amp service
- **Physical Parameters**: 60” H x 30” W x 36” D, 940 lbs. dry weight approx.
- **Warranty**: 12 Months, Parts and Labor
- **Refrigeration**: 8 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

### 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

Contact Mydax to customize this system for your specific needs

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