CryoDax 90 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**
  - 75 kW at -30°C
  - 45 kW at -40°C
  - 24 kW at -50°C
  - 12 kW at -60°C
  - 6 kW at -70°C
  (*Ratings on 60 Hz with standard pump*)
- **Nominal Heating Capacity** 3,000 Watts
- **Recirculating Flow** 30 Gpm at 35 PSI
- **Stainless Steel Reservoir** 20 Gallons (vented)
- **Recirculating Fluid** Syltherm HF / XLT or equivalent
- **Recirculating Supply/Return Fittings** 1” Stainless Steel FNPT
- **Condenser Water Requirements**
  - Up to 32 Gpm at 70°F inlet
  - Up to 38 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, 180 amp service
- **Physical Parameters**
  - 74” H x 60” W x 102” D
  - 3,100 lbs. dry weight approx.
- **Warranty** 12 Months, Parts and Labor
- **Refrigeration** Three 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, pressure gauge, over-pressure switch, brazed plate heat exchanger, copper piping

*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 system and external recirculation start/stop, 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 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