CryoDax 40 Water-Cooled Chiller/Heater

Standard Specifications and Features

- Fluid Setpoint Range  -70°C to +80°C
- Temperature Stability  ± 1.0°C  
  (at temperatures below -30°C)
- Net Cooling Capacities  
  30.2 KW at -30°C  
  18.5 KW at -40°C  
  11.0 KW at -50°C  
  5.5 KW at -60°C  
  3.1 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 
  or equivalent
- Recirculating Supply/Return Fittings 3/4” Stainless Steel FNPT
- Condenser Water Requirements Up to 20 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 
  80 amp service
- Physical Parameters 74” H x 60” W x 62” D  
  2,200 lbs. dry weight approx.
- Warranty 12 Months, Parts and Labor
- Refrigeration Two 20 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 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
- 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 Refrigeration Standard AHRI 550/590, 
  National Electrical Code NFPA-70, 
  Electrical Standard for Industrial 
  Machinery NFPA-79

Please contact Mydax to customize this system for 
your specific needs