

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
- 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



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