



CryoDax 12X

Low Temperature Chiller System

With over three decades of experience and refinement of low temperature liquid chiller / heater systems, Mydax has designed the CryoDax series of chillers to provide Quality, Reliability and Performance for demanding industrial temperature control applications.



With a temperature range of -85°C to +80°C standard for CryoDax X models and large cooling capacities at low temperatures, CryoDax and CryoDax X chiller systems offer industrial temperature control solutions for Extraction, Hydrogen Fueling, Semiconductor, Pharmaceutical, Automotive, Aerospace, Medical and Custom Applications.

Specifications

Fluid Setpoint Range	-85°C to +80°C
Temperature Stability	± 1.0°C at temperatures below -30°C
Net Cooling Capacities (*Ratings on 60 Hz with standard pump)	-30°C -40°C -50°C -60°C -70°C -80°C 9kW 5kW 4kW 3kW 3kW 1.5kW
Nominal Heating Capacity	3,000 Watts
Recirculating Flow/Pressure	6 Gpm at 40 PSI
Stainless Steel Reservoir	5 gallons (sealable with nitrogen blanket)
Recirculating Fluid	Syltherm XLT or equivalent
Recirculating Supply / Return Fittings	3/4" Stainless Steel FNPT
Facilities Requirements	Up to 7 Gpm at 70°F inlet, 20 Psi ΔP
Maximum Heat Rejection	79,000 Btu/hr
Facilities Supply / Return Fittings	3/4" Stainless Steel FNPT
Electrical Service	440/480 VAC, 60Hz, 3 phase, 40 amp service 380/420 VAC, 50Hz, 3 phase, 40 amp service
Dimensions	74" H x 60" W x 65" D
Weight	1,250 lbs. dry weight approx.
Warranty	12 Months, Parts and Labor
Patents:	#4,742,689, #4,959,972, #4,934,155
Refrigeration	R-507 / R-508B refrigerants



Standard Features

- **Condenser** Brazed plate heat exchanger with a water flow control valve to automatically maintain condensing temperature
- **Interfacing** Remote contacts providing run and alarm status, RS-232 serial interface for remote control and monitoring
- **Safety Standards** UL-508A, National Electrical Code NFPA-70, Electrical Standard for Industrial Machinery NFPA-79
- **Construction** Welded steel frame with aluminum panels, frame and panels are powder coated for durability, mounted I-beam supports
- **Recirculation** 1.5 Hp SS seal-less magnetic-drive turbine pump, turbine fluid flowmeter in recirculating return, pressure gauge, over-pressure 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

Email: sales@mydax.com visit <https://mydax.com> or call **530-888-6662** to customize this system for your specific needs