



## CryoDax 12

### 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 -70°C to +80°C standard for CryoDax models and large cooling capacities at low temperatures, CryoDax X and CryoDax chiller systems offer industrial temperature control solutions for Extraction, Hydrogen Fueling, Semiconductor, Pharmaceutical, Automotive, Aerospace, Medical and Custom Applications.



### Standard Features

**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

**Condenser** - Brazed plate heat exchanger with a water flow control valve to automatically maintain condensing temperature

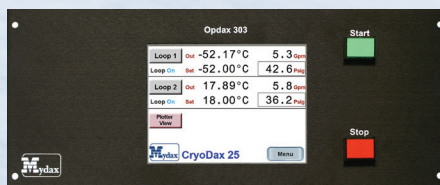
**Construction** - Welded steel frame with aluminum panels, frame and panels are powder coated for durability, mounted on locking casters and leveling feet

**Safety Standards** - UL-508A, National Electrical Code NFPA-70, Electrical Standard for Industrial Machinery NFPA-79

**Interfacing** - Remote contacts providing run and alarm status, RS-232 serial interface for remote control and monitoring

**Safety Interlocks** - Fluid low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency off switch

**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



### Specifications

Fluid Setpoint Range	-70°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 9.0kW	-40°C 5.0kW	-50°C 4.0kW	-60°C 1.2kW
Nominal Heating Capacity	3,000 Watts			
Recirculating Flow/Pressure	6 Gpm at 40 PSI			
Stainless Steel Reservoir	5 gallons (Sealable)			
Recirculating Fluid	Syltherm HF or XLT			
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, 30 amp service 380/420 VAC, 50Hz, 3 phase, 30 amp service			
Dimensions	66" H x 36" W x 56" D			
Weight	980 lbs. dry weight approx.			
Warranty	12 Months, Parts and Labor			
Patents	#4,742,689, #4,959,972, #4,934,155			
Refrigeration	12 Hp semi-hermetically sealed compressor, R448A refrigerant			

Please Contact us Directly for Customization

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