



CryoDax 50

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

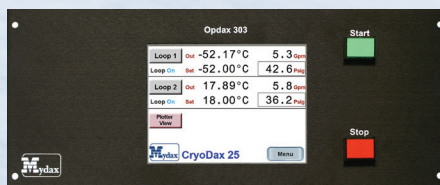
Construction - Welded steel frame with aluminum panels, frame and panels are powder coated for durability, mounted on I-beam supports

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 - 3.0 Hp canned-motor centrifugal 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 30.0kW	-40°C 21.0kW	-50°C 13.0kW	-60°C 6.0kW
Nominal Heating Capacity	3,000 Watts			
Recirculating Flow/Pressure	30 Gpm at 35 PSI			
Stainless Steel Reservoir	20 gallons (Sealable)			
Recirculating Fluid	Syltherm HF or XLT			
Recirculating Supply / Return Fittings	1 1/4" Stainless Steel FNPT			
Facilities Requirements	Up to 24 Gpm at 70°F inlet, 20 Psi ΔP			
Maximum Heat Rejection	296,000 Btu/hr			
Facilities Supply / Return Fittings	1" Stainless Steel FNPT			
Electrical Service	440/480 VAC, 60Hz, 3 phase, 100 amp service 380/420 VAC, 50Hz, 3 phase, 100 amp service			
Dimensions	74" H x 60" W x 65" D			
Weight	2,200 lbs. dry weight approx.			
Warranty	12 Months, Parts and Labor			
Patents	#4,742,689, #4,959,972, #4,934,155			
Refrigeration	Two 25 Hp semi-hermetically sealed compressor, R448A refrigerant			

Please Contact us Directly for Customization

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