

1M27W Water-Cooled Chiller

Medium Temperature Chiller System

Mydax industrial liquid chiller designs insure long term system performance by incorporating high quality components and decades of experience. Thorough system testing and a dedicated support team utilize built in diagnostic and safety devices to keep all chiller systems performing to design specifications for years.

Mydax's Advanced Temperature Control Technology allows full proportional cooling from 0% to 100% load conditions. With available temperature stabilities of $\pm 0.05^{\circ}\text{C}$ for critical applications, even with high cooling power requirements up to 70kW or larger, Mydax is bringing laboratory precision to the industrial market.

Specifications

Fluid Setpoint Range	0°C to +60°C
Temperature Stability	$\pm 0.5^{\circ}\text{C}$
Net Cooling Capacities	8,000 Watts at +0°C (60 Hz)
Nominal Heating Capacity	3,000 Watts
Recirculating Flow/Pressure	6 GPM at 80 PSI Adjustable
Stainless Steel Reservoir	5 gallons (Vented)
Recirculating Fluid	Koolance 702 / Propylene Glycol/Water
Recirculating Supply / Return Fittings	3/4" Stainless Steel FNPT
Facilities Supply / Return Fittings	3/4" Stainless Steel FNPT
Condenser Water Requirements	Up to 5 GPM at 70°F inlet
Electrical Service	208/230 VAC, 60 Hz, 3 Phase, 200/220 VAC, 50 Hz, 3 Phase, 50 amp service
Dimensions	66" H x 30" W x 30" D (36" Deep Including Filter)
Weight	725 lbs. dry weight approx.
Warranty	12 Months, Parts and Labor
Patents:	#4,742,689, #4,959,972, #4,934,155
Refrigeration	7 Hp hermetically sealed scroll compressor, R-513A refrigerant



Standard Features

- **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** 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
- **Recirculation** 3 Hp magnetic drive turbine pump powered by a variable frequency drive (VFD) to provide adjustable output flow and pressure, SS brazed plate heat exchanger, SS turbine flowmeter, Bypass flow adjust valve, panel mounted pressure gauge, Digital In/Out Pressure display, Full flow 30 micron particle filter, 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