

# CryoDax 30X Very Low Temperature Chiller/Heater

## Standard Specifications and Features



- Fluid Setpoint Range            -85°C to +80°C
- Temperature Stability            ± 1.0°C
- Net Cooling Capacities            25 kW at -30°C  
16 kW at -40°C            8 kW at -50°C  
7.5 kW at -60°C            7.5 kW at -70°C  
6 kW at -80°C  
(\*Ratings on 60 Hz with standard pump)
- Nominal Heating Capacity        3,000 Watts
- Recirculating Flow/Pressure    8 Gpm at 45 PSI,  
4 Gpm at 90 PSI
- Stainless Steel Reservoir        20 Gallons  
(sealable with nitrogen blanket)
- Recirculating Fluid                Syltherm XLT  
or equivalent
- Recirculating Supply/  
Return Fittings                    3/4" Stainless Steel FNPT
- Condenser Water  
Requirements                      Up to 19 Gpm at 70°F inlet,  
20 Psi ΔP, supply-to-drain
- Facilities Water Fittings        1" Stainless Steel FNPT
- Electrical Service                 440/480 VAC, 60 Hz, 3 phase  
75 amp service
- Physical Parameters              74" H x 48" W x 60" D  
1,700 lbs. dry weight approx.
- Warranty                            12 Months, Parts and Labor
- Refrigeration                    R-507 / R-508B refrigerants
- 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 magnetic-drive turbine  
pump, turbine fluid flowmeter in recirculating  
return, pressure gauge, overpressure switch,  
SS heat exchanger, copper piping
- Safety Interlocks                Reservoir low level and empty switches,  
refrigerant high and low pressure switches,  
fluid over-temperature switch, emergency

- 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 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  
locking casters and leveling feet
- Safety Standards                UL-508A Industrial Control panel,  
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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Patents: #4,742,689, #4,959,972, #4,934,155

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