

CryoDax 50 Water-Cooled Chiller/Heater

Standard Specifications and Features

- Fluid Setpoint Range -70°C to +80°C
- Temperature Stability $\pm 1.0^\circ\text{C}$
- Net Cooling Capacities
34.6 KW at -30°C
21.0 KW at -40°C
13.0 KW at -50°C
6.8 KW at -60°C
4.0 KW at -70°C
- Heating Capacity 3,000 Watts on 460 VAC
- Recirculating Flow/Pressure 8 Gpm at 45 PSI,
4 Gpm at 100 PSI
- Stainless Steel Reservoir 20 Gallons (vented)
- Recirculating Fluid Syltherm XLT or HF
- Recirculating Supply/
Return Fittings 3/4" Stainless Steel FNPT
- Condenser Water
Requirements Up to 22 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
100 amp service
- Physical Parameters 74" H x 60" W x 62" D
2,200 lbs. dry weight approx.
- Warranty 12 Months, Parts and Labor
- Refrigeration Two 25 Hp semi-hermetically sealed,
two-stage compressors in a parallel
configuration, R-507 refrigerant
- 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,
brazed plate heat exchanger, copper piping
- Safety Reservoir low level and empty switches,
Interlocks 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
- 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 adjustable
leveling feet
- Safety Refrigeration Standard AHRI 550/590,
Standards 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

3/2/2017

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