

CryoDax 40 Water-Cooled Chiller/Heater

Standard Specifications and Features

- Fluid Setpoint Range -70°C to +80°C
- Temperature Stability ± 1.0°C
(at temperatures below -30°C)
- Net Cooling Capacities 30.2 KW at -30°C
18.5 KW at -40°C 11.0 KW at -50°C
5.5 KW at -60°C 3.1 KW at -70°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 (vented)
- Recirculating Fluid Syltherm XLT or HF
or equivalent
- Recirculating Supply/
Return Fittings 3/4" Stainless Steel FNPT
- Condenser Water
Requirements Up to 20 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
80 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 20 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 Interlocks Reservoir 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
- 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 Standards Refrigeration Standard AHRI 550/590,
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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