

# CryoDax 20 Water-Cooled Chiller/Heater

## Standard Specifications and Features



- Fluid Setpoint Range            -70°C to +80°C
- Temperature Stability           ± 1.0°C
- Net Cooling Capacities        15.1 KW at -30°C  
    9.0 KW at -40°C            5.5 KW at -50°C  
    2.6 KW at -60°C            1.5 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
- Recirculating Supply/  
   Return Fittings                3/4" Stainless Steel FNPT
- Condenser Water  
   Requirements                 Up to 15 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  
    50 amp service
- Physical Parameters            74" H x 41" W x 53" D  
    1,250 lbs. dry weight approx.
- Warranty                         12 Months, Parts and Labor
- Refrigeration                  20 Hp semi-hermetically sealed  
    compressor, 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**



12260 Shale Ridge Lane  
 Auburn, CA 95602  
 530-888-6662

2/21/2018

Patents: #4,742,689, #4,959,972, #4,934,155

Fax: 530-888-0962  
 www.mydax.com  
 E-mail: sales@mydax.com