



## CryoDax 30

### Low Temperature Chiller System

With over three decades of experience and refinement of low temperature liquid chiller / heater systems, Mydax has designed the CryoDax series of chillers to provide Quality, Reliability and Performance for demanding industrial temperature control applications.

With a temperature range of -70°C to +80°C standard for CryoDax models and large cooling capacities at low temperatures, CryoDax X and CryoDax chiller systems offer industrial temperature control solutions for Extraction, Hydrogen Fueling, Semiconductor, Pharmaceutical, Automotive, Aerospace, Medical and Custom Applications.



### Standard Features

**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

**Condenser** - Brazed plate heat exchanger with a water flow control valve to automatically maintain condensing temperature

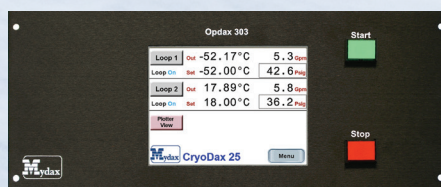
**Construction** - Welded steel frame with aluminum panels, frame and panels are powder coated for durability, mounted on locking casters and leveling feet

**Safety Standards** - UL-508A, 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

**Safety Interlocks** - Fluid low level and empty switches, refrigerant high and low pressure switches, fluid over-temperature switch, emergency off switch

**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



### Specifications

|                                                                  |                                                                                          |        |       |       |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------|-------|-------|
| Fluid Setpoint Range                                             | -70°C to +80°C                                                                           |        |       |       |
| Temperature Stability                                            | ± 1.0°C at temperatures below -30°C                                                      |        |       |       |
| Net Cooling Capacities<br>(*Ratings on 60 Hz with standard pump) | -30°C                                                                                    | -40°C  | -50°C | -60°C |
|                                                                  | 25.0kW                                                                                   | 16.0kW | 8.0kW | 3.2kW |
| 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)                                                                    |        |       |       |
| Recirculating Fluid                                              | Syltherm HF or XLT                                                                       |        |       |       |
| Recirculating Supply / Return Fittings                           | 3/4" Stainless Steel FNPT                                                                |        |       |       |
| Facilities Requirements                                          | Up to 14 Gpm at 70°F inlet, 20 Psi ΔP                                                    |        |       |       |
| Maximum Heat Rejection                                           | 175,000 Btu/hr                                                                           |        |       |       |
| Facilities Supply / Return Fittings                              | 1" Stainless Steel FNPT                                                                  |        |       |       |
| Electrical Service                                               | 440/480 VAC, 60Hz, 3 phase, 60 amp service<br>380/420 VAC, 50Hz, 3 phase, 60 amp service |        |       |       |
| Dimensions                                                       | 74" H x 38.75" W x 56" D                                                                 |        |       |       |
| Weight                                                           | 1,300 lbs. dry weight approx.                                                            |        |       |       |
| Warranty                                                         | 12 Months, Parts and Labor                                                               |        |       |       |
| Patents                                                          | #4,742,689, #4,959,972, #4,934,155                                                       |        |       |       |
| Refrigeration                                                    | 30 Hp semi-hermetically sealed compressor, R448A refrigerant                             |        |       |       |

Please Contact us Directly for Customization

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