

# 1M52W Water-Cooled Chiller/Heater

## Specifications and Features

- Fluid Setpoint Range            0°C to +100°C
- Temperature Stability           ± 0.1°C
- Net Cooling Capacities        15,200 Watts at +5°C  
52,000 Btu/hr at 41°F
- Heating Capacity                16,000 Watts on 460 VAC
- Recirculating Flow/Pressure   20 Gpm at 60 PSI
- Stainless Steel Reservoir      25 Gallons
- Recirculating Fluid            35% Ethylene Glycol /  
65% Water
- Recirculating Supply/  
Return Fittings                    1 1/4" Stainless Steel FNPT
- Facilities Requirements        Up to 9 Gpm at 37°F inlet,  
20 Psi ΔP
- Facilities Supply/  
Return Fittings                    3/4" Stainless Steel FNPT
- Electrical Service                440/480 VAC, 60 Hz, 3 phase,  
60 amp service
- Physical Parameters            66" H x 36" W x 56" D  
1000 lbs dry weight approx.
- Warranty                            12 Months, Parts and Labor
- Refrigeration                    7 Hp Semi-Hermetic compressor,  
R-507 refrigerant
- Condenser                        Brazed plate heat exchanger with a  
water flow control valve to automatically  
maintain condensing temperature
- Recirculation                    5 HP seal-less canned motor centrifugal  
pump, turbine flowmeter installed in fluid  
return circuit, output flow adjust globe valve,  
panel mounted pressure gauge
- 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,  
analog interface and remote start/stop
- Construction                    Welded steel frame with aluminum  
panels, powder coated and mounted  
on locking casters and leveling feet,  
NEMA 4X electrical enclosure for clean  
environment operation
- Safety Standards                Refrigeration Standard AHRI 550/590  
National Electrical Code NFPA-70,  
Electrical Standard for Industrial  
Machinery NFPA-79

