

# 1M16W Water-Cooled Chiller/Heater

## Specifications and Features



- Fluid Setpoint Range            0°C to +60°C
- Temperature Stability            ± 0.5°C
- Net Cooling Capacities            4,820 Watts at 0°C (60 Hz)  
4,000 Watts at 0°C (50 Hz)
- Heating Capacity                 3,000 Watts
- Recirculating Fluid                Galden HT-170
- Stainless Steel Reservoir        5 Gallons
- Recirculating Flow/Pressure    1 to 6 Gpm at 80 PSI  
(both 60 Hz and 50 Hz)
- Recirculating Supply/  
Return Fittings                    3/4" Stainless Steel FNPT
- Condenser Water  
Requirements                      Up to 5 Gpm at 60°F Inlet,  
20 PSI ΔP (supply-to-drain)
- Facilities Supply/  
Return Fittings                    3/4" Stainless Steel FNPT
- Electrical Service                 208/230 VAC, 60 Hz, 3 Phase,  
200/220 VAC, 50 Hz, 3 Phase,  
40 amp service
- Physical Parameters              Footprint 66"H x 36"W x 30"D,  
(Total 36" D incl. filter)        650 Lbs. dry weight (approx.)
- Warranty                            12 Months, Parts and Labor
- Refrigeration                      5 Hp hermetically-sealed scroll compressor,  
R-507 refrigerant
- Condenser                         SS plate heat exchanger with a water flow  
control valve to automatically maintain  
condensing temperature, copper piping
- Recirculation                      3 Hp magnetic-drive turbine pump  
powered by an **optional** variable frequency  
drive (VFD) to provide adjustable output  
flow and pressure, SS brazed plate heat  
exchanger, SS turbine flowmeter, Bypass  
flow adjust valve, panel mounted pressure  
gauge, **optional** Full flow 30 micron particle  
filter, copper piping

- Safety Interlocks                Reservoir low level and empty  
switches, refrigerant high and low  
pressure switches, fluid over-temp  
and over-pressure switches,  
emergency off switch
- Controller                         PID controller with a 5.7 inch 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, locking casters  
with adjustable leveling pads
- 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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