

# 1VLC11W Water-Cooled Chiller/Heater

## Specifications and Features

- Fluid Setpoint Range -80°C to +40°C
- Temperature Stability ± 0.5°C
- Net Cooling Capacities 3,000 Watts at -70°C  
6,500 Watts at -20°C
- Heating Capacity 3,000 Watts on 460 VAC
- Recirculating Flow/Pressure 4.5 Gpm at 80 Psi
- Stainless Steel Reservoir 4 Gallons, Sealable
- Recirculating Fluid Galden HT-90 or Syltherm XLT Silicone Oil
- Recirculating Supply/Return Fittings 3/4" Stainless Steel FPT
- Facilities Requirements Up to 8 Gpm at 21°C inlet,  
20 Psi ΔP Supply-to-Drain
- Facilities Supply/Return Fittings 3/4" Stainless Steel FPT
- Electrical Service 440/480 VAC, 60 Hz, 3 Phase,  
60 amp service
- Physical Parameters 66" H x 36" W x 45" D  
1,200 pounds dry weight
- Refrigeration 5 Hp low-stage and 10 Hp high-stage  
semi-hermetically sealed compressors in  
a cascaded configuration
- Condenser Brazed plate heat exchanger with a  
refrigerant pressure actuated water flow  
control valve to automatically adjust water  
usage to maintain condensing temperature
- Recirculation 1.5 Hp stainless steel magnetically-driven  
turbine pump powered by a variable  
frequency drive to optimize pump motor  
speed and maximize cooling power
- Safety Interlocks Reservoir low level and empty switches,  
refrigerant high / low pressure switches,  
turbine fluid flowmeter and over-  
temperature switch



- Controller PID type controller that utilizes  
fully proportional cooling and  
heating with the Mydax patented  
refrigeration circuit.
- Interfacing Remote analog interface providing  
chiller and pump run/alarm status  
and remote EMO capability,  
RS-232 serial interface
- Construction Welded steel frame with  
aluminum side panels, frame  
and panels are powder coated  
for durability, mounted on locking  
casters and leveling pads
- Safety Standards Refrigeration Standard ARI 590-2,  
National Electrical Code NFPA-70,  
Electrical Standard for Industrial  
Machinery NFPA-79
- Warranty 12 Months, Parts and Labor



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