

# 1VL40W-OD Outdoor-Rated, Water-Cooled Chiller

## Specifications and Features

- Fluid Setpoint Range            -50°C to +35°C
- Temperature Stability           ± 0.5°C
- Net Cooling Capacity            12,900 Watts at -45°C  
(44,000 BTU/hr at -49°F)
- Heating Capacity                3,000 Watts on 208 VAC
- Recirculating Flow/Pressure    25 Gpm at 20 Psi
- Stainless Steel Reservoir        100 Gallons, Sealable
- Recirculating Fluid                Syltherm HF Silicone Oil
- Recirculating Supply/  
Return Fittings                    2" Stainless Steel 300# Flanges
- Condenser Cooling Fluid        40% Propylene Glycol / 60% Water
- Condenser Supply/  
Return Fittings                    1" Stainless Steel FPT
- Facilities Requirements          Up to 5.5 Gpm at +3°C Inlet,  
20 Psi ΔP
- Electrical Service                208/230 VAC, 60 Hz, 3 phase,  
100 amp service
- Physical Parameters            65" H x 60" W x 72" D  
2,350 pounds dry weight
- Warranty                            12 Months, Parts and Labor
- Refrigeration                    Two (2) 20 Hp semi-hermetically sealed,  
two-stage compressors, R-507 refrigerant
- Condenser                        A brazed plate heat exchanger is used and  
a refrigerant pressure actuated water flow  
control automatically adjusts water usage
- Site Conditions                 Ambient Temperature: -20°F to 105°F;  
Relative Humidity: 100%; Wind Speed:  
90 Mph, Exposure C; Elevation: 5,400 Feet  
Atmospheric Pressure: 12.2 Psi
- Safety Interlocks                Reservoir low level and empty switches,  
refrigerant high and low pressure switches,  
turbine fluid flowmeter in recirculating  
return line



Similar Model Shown

- Pump                                2 Hp canned motor centrifugal  
pump with no rotating  
mechanical seals
- Controller                        PID type controller that utilizes  
fully proportional cooling with the  
Mydax patented refrigeration  
circuit.
- Construction                    Welded steel frame with  
aluminum side panels. Frame  
and panels are powder coated  
for durability, mounted on I-beam  
supports.
- Interfacing                      Custom Analog Interface and  
RS-232 Serial Interface for  
Remote Control and Monitoring
- Safety Standards                Refrigeration Standard ARI  
590-2, National Electrical Code  
NFPA-70, Electrical Standard  
for Industrial Machinery  
NFPA-79

