

1VLH90W Water-Cooled Chiller System

Specifications and Features

All power and flow specifications are stated for 460 VAC, 60 Hz operation.



- Fluid Adjust Range -50°C to +90°C
- Temperature Stability ± 1.5°C or better
- Net Cooling Capacities 72,000 Watts at -30°C
Derate by 17% for 90,000 Watts at -10°C
50 Hz operation 108,000 Watts at ≥ +10°C
- Recirculating Flow/Pressure 35 Gpm at 90 Psi (-30°C)
- Recirculating Fluid Galden HT-110
- Total System Fluid Volume 12.5 Gallons
- Recirc. Supply/Return 2" SS Bolted Flanges
- Facilities Requirements Up to 40 Gpm at +25°F Inlet,
30 Psi ΔP Supply-to-Drain
- Facilities Fittings 2" SS Bolted Flanges
- Electrical Service 440/480 VAC, 60 Hz, 3 Phase,
200 Amp Service (150 Amp Draw)
- Physical Parameters 66"H x 70"W x 92"D
5,000 lbs. dry weight
- Warranty 12 Months, Parts and Labor
- Controller PID type controller that utilizes fully
proportional cooling 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
- Safety Interlocks Fluid low level and empty switches,
refrigerant high and low pressure
switches, turbine fluid flowmeters,
fluid over-temp switch
- Construction Welded steel frame with aluminum
side panels, frame and panels are
powder coated for durability, frame
is equipped with locking casters
- Optional Heaters 9,000 watt heating package would
increase current draw by 12 amps,
for 162 amp total system draw
- Safety Standards Refrigeration Standard ARI 590-2,
National Electrical Code NFPA-70,
Electrical Standard for Industrial
Machinery NFPA-79
- Refrigeration 30 Hp semi-hermetically sealed, 2-stage
(each chiller module) compressor, R-507 refrigerant, 20 lbs.
- Condenser Brazed plate heat exchanger with a
(each chiller module) refrigerant pressure actuated water flow
control valve to automatically adjust water
usage to maintain condensing temperature
- Recirculation 10 Hp magnetically-driven centrifugal
pump powered by a variable frequency
drive to optimize pump motor speed and
maximize cooling power

Note: This is a modular system comprised of three (3) water-cooled, refrigerated, flow-through chiller modules and one (1) recirculating pump module.

Patents: #4,742,689, #4,959,972, #4,934,155



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