

1VLH30W Water Cooled Chiller/Heater

Specifications:

- **Net Cooling Capacity, 60 Hz:** 2.5kW (8,540 BTU/Hr) @-70°C
(derate 50Hz by 17%) 4.4kW (15,030 BTU/Hr) @-60°C
9.8kW (33,470 BTU/Hr) @-50°C
17.5kW (59,760 BTU/Hr) @-40°C
27kW (92,200 BTU/Hr) @-30°C
35kW (119,530 BTU/Hr) @-23°C +
- **Heating Capacity:** 10kW @ 460 VAC, options available
- **Fluid Adjust Range** -70°C to +120°C (-94°F to +248°F)
- **Temperature Stability** ± 0.5°C (±0.9°F)
- **Recirculating Flow/Pressure** 20 Gpm @ 30 Psi
Optional: pressures up to 100 psi
- **Stainless Steel Reservoir** 40 Gallons
- **Recirculating Fluid** Syltherm HF, Optional: D-Limonene
- **Recirculating Supply/Return Fittings** 1-1/4" Stainless Steel FPT
Optional: Ansi B 150 lb SS flanges
- **Facilities Requirements** 0 to 5.3 Gpm @ 37°F, 20 psid
or 0 to 17 Gpm @70°F, 20 psid
- **Facilities Water Fittings** 1" Stainless Steel FPT
- **Electrical Service** 440/480 VAC, 60 Hz, 3 phase,
60 amp service, 40 amp nominal
Optional: 380/420V, 50 Hz, 3 phase
: 208V, 60 Hz, 3 phase
- **Physical Parameters** 74"Height x 41"Wide x 49"Deep
1400 pounds dry weight
- **Warranty 12 months, Parts and Labor**

Features:

- Refrigerant:** Ozone safe HFC type R-507
- Compressor:** 30 HP semi-hermetically sealed.
- Condenser:** A brazed plate heat exchanger is used.
A refrigerant pressure actuated water flow control automatically adjusts the water usage to maintain a constant condensing temperature.
- Pump:** A Leakproof seal-less mag-drive centrifugal type.
The pump is powered by a variable frequency drive (VFD) to provide output flow and pressure independent of the power supply frequency.
- Safety Interlocks:** Reservoir empty float switch, refrigerant high and low pressure switches, turbine fluid flowmeter, over-temp switches.



Features:

- Controller:** PID type controller that utilizes a fully proportional cooling and heating with the Mydax Patented refrigeration circuit.
- Construction:** Welded steel frame with aluminum side panels. Frame and panels powder coated for durability. Locking casters are included.
- Interfacing:** Standard: RS-232
Optional:
Analog voltage
RS-485
IEEE-488 GPIB
- Safety Standards**
- Optional:** This chiller system can be ETL or UL Listed upon request.
CE Marking is available

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



12260 Shale Ridge Ln
Auburn, CA 95602
530-888-6662

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Fax: 530-888-0962

www.mydax.com

E-mail: sales@mydax.com