1HE70W Liquid-to-Liquid Heat Exchanger

**Specifications**

- **Fluid Setpoint Range**
  +10°C to +30°C (50°F to 86°F)

- **Temperature Stability**
  ± 2.0°C (± 3.6°F)

- **Cooling Capacity at 5°C ΔT**
  20,000 Watts (68,200 BTU/hr)
  \( \Delta T = \text{Recirculating Output Temperature} - \text{Facilities Water Supply Temperature} \)

- **Recirculating Flow/Pressure**
  25 Gpm at 120 Psi, 130 Psi Maximum Output

- **Recirculating Fluid**
  PAO (Royco 602)

- **Stainless Steel Reservoir**
  18 Gallons

- **Recirculating Supply/Return Fittings**
  2” Stainless Steel FPT

- **Facilities Cooling Water Requirements**
  Up to 10 Gpm at 70°F inlet, 20 Psi ΔP (supply-to-drain), 100 Psi Maximum Inlet

- **Facilities Supply/Return Fittings**
  1” Stainless Steel FPT

- **Electrical Service**
  208/230 VAC, 60 Hz, 3 phase, 30 amp service

- **Physical Parameters**
  48" H x 36" W x 45" D
  600 pounds dry weight

- **Warranty**
  12 Months, Parts and Labor

**Features**

- **Recirculating Pump**
  1 Hp multi-stage centrifugal pump

- **Heat Exchanger**
  A brazed plate heat exchanger is used, a proportional flow valve automatically adjusts facilities water usage to maintain a stable recirculating output temperature

- **Safety Interlocks**
  Reservoir empty and low level switches, recirculating over-pressure switch, front panel mounted Emergency Off switch

- **Displays**
  Setpoint and actual temperatures, flow rates and diagnostics

- **Controller**
  PID type controller that utilizes fully proportional cooling

- **Construction**
  Welded steel frame with aluminum panels. Frame and panels are powder coated for durability. Locking casters and adjustable leveling pads.

- **Interfacing**
  RS-232 for Remote Control and Monitoring

- **Safety Standards**
  National Electrical Code NFPA
  NFPA-70, Electrical Standard for Industrial Machinery
  NFPA-79