REJCIRCULATING LOOP CHILLERS

APPLICATIONS
Jacket Cooling
Lasers
Induction Heaters
Machine Tools
Welders
MRI Equipment
CAT Scans

FEATURES
Energy Saving Design
Unlike most process chillers, compressor runs only as needed. Storage design provides close temperature control and safety from freeze-up without constant operation.

Complete Temperature Control
Temperature adjustable within a range of 40°F to 90°F (5°C to 32°C) and will hold temperature within ±1.5°F (1°C) of setting. (±0.5°F optional)

Welded Stainless Steel Cooling Tank
Recirculates clean coolant sealed from the atmosphere, eliminates bacterial build-up and internal corrosion.

Uses HFC Refrigerant
Eliminates use of ozone-depleting refrigerant as per Montreal Protocol.

Unlimited Options
Design the perfect cooling system for any application. Over 50 options to meet almost any special need. See bulletin O & A.

MODELS............................................PCP or POC-150

WELDED HERMETIC MODELS

DESCRIPTION
Recirculating chillers recirculate a clean coolant at constant temperature and pressure to increase the stability and consistency of water cooled machines and instruments. Air cooled chillers eliminate the use of tap water and prevent clogging and corrosion of small diameter heat exchangers due to rust and scale build-up.

• PCP - Closed Loop Chillers - Use a storage type cooling tank, with immersion coil evaporator, to provide close temperature control of recirculating coolants. The tank is sealed to prevent coolant evaporation and fouling, and supplied with a liquid level gauge, fill port and clean out. The pump recirculates coolant at constant pressure and flow, which is adjustable by turning a manual bypass valve.

• POC - Open Loop Chillers - Pump liquid from an open tank or sump, through the chiller and back to the sump. An adjustable thermostat senses the make up liquid temperature, cycling the chiller to insure constant temperature in the sump.

SPECIFICATIONS

| COOLING CAPACITY @ 68°F (20°C) DISCHARGE & 90°F (32°C) AMBIENT |
|-----------------|----------------|----------------|
| MODEL           | BTU / HR       | WATTS          | FLA @ 230 |
| PCP or POC-150-15 | 15,000       | 4,400           | 10        |
| PCP or POC-150-17 | 17,000       | 4,981           | 11        |
| PCP or POC-150-19 | 19,000       | 5,570           | 11        |
| PCP or POC-150-21 | 21,000       | 6,153           | 14        |

COMPRESSOR: HP ........................................................................................................... 1-1/2
Lifetime lubricated, welded hermetic type supplied with high/low pressure stat, anti-migration solenoid valve, head and suction gauges, thermostatic expansion valve, refrigerant sight glass and dehydrator.

STANDARD CONDENSERS (Designated by suffix)
- A Fan cooled condenser for indoor installation.
- AR Remote Air cooled condenser furnished separately for mounting on roof.
- W Water cooled condenser for hookup to city or tower water
- A-WP Self-contained air cooled condenser; complete unit made weather-resistant for outdoor installation.

COOLING TANK & EVAPORATOR: Capacity .................................................. 16 Gal. (61 L)
Welded stainless steel shell and immersion coil evaporator. Tank tested at 250# for 125# working pressure. Supplied with liquid level gauge and insulated with closed cell thermo- elastomer with an R factor of 3.7.

PUMP: HP .................................................................................................................. 1/3
Capacity ................................................................................................................. 8 GPM (30 LPM) @ 15 PSI
All bronze centrifugal pump mounted on rubber pads over a stainless steel condensation tray and supplied with unions and service valves and manually adjustable bypass valve. All piping and fittings brass, copper, or bronze and insulated with closed cell thermo-elastomer with an R factor of 3.7.

THERMOSTAT: Adjustable Range ........................................... 40°F to 90°F (5°C to 32°C)
Temperature Stability .................................................................. ±1.5°F (1°C)

CABINET: Enamled aluminum panels (removable for access to all components) with stainless steel corner legs and top on a welded angle iron frame.

SUPPLY POWER: ................................................................. 208 - 230/60/1
PLUMBING CONNECTIONS IN & OUT ................................................. 3/4” (19mm) FPT
NOTE: Information given in this bulletin for general use only. Confirm exact specs with factory for your specific requirements.