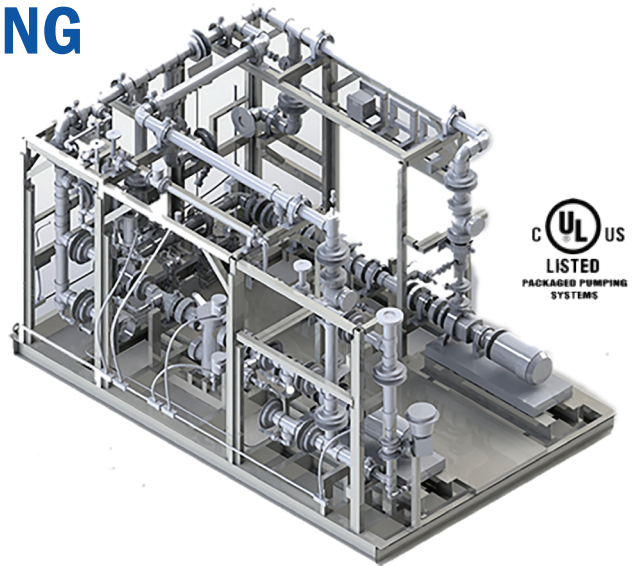


envirosep PCW

INDUSTRIAL PROCESS COOLING

Envirosep has led the way in packaged systems by offering designs and manufacturing integrated solutions for fluid handling, heat transfer and energy recovery for over 20 years. We strive to provide the most cost effective and energy efficient industrial process cooling water systems to our customers.

Our packaged industrial process cooling system designs have proven to be a benchmark solution with outstanding reliability, robust construction, and superior automation for the most challenging industrial environments. Our systems are specifically engineered and manufactured for use in any industrial process cooling application, such as plastics, molding, chemical process, mining and deionized or high resistivity fluid.



FEATURES & BENEFITS

- Our *envirosep PCW* is factory manufactured, tested and UL-listed ensuring quality and NEC code compliance
- Sole source manufacturing responsibility, just one manufacturer to coordinate
- Our *envirosep PCW* is cost effective - offering fixed costs and on-time delivery coordinated with site (factory controlled environment means no weather delays)
- Our process cooling systems may be configured for pumping a variety of fluids at a controlled flow rate for any industrial application in either an open or closed loop.
- Each unit is custom-engineered to meet specific system requirements
- Factory operational and hydrostatic testing is performed prior to shipment, therefore minimal site testing is required
- Speeds up installation and start-up which provides significant savings to contractors, engineers and facility owners

STANDARD DESIGN INCLUDES:

- Centrifugal pumps-vertical in-line, end suction or horizontal split-case
- PLC based system controller (with color touchscreen interface)
- Variable frequency drives (VFD)
- On-demand, auto pump staging, based on actual system demand
- Auto system temperature controls
- Auto system restart
- Air separator & bladder expansion tank
- System conductivity controls with auto blow-down
- System pressure and differential pressure controls
- Carbon steel main headers

PROCESS COOLING SYSTEM OPTIONS:

- Stainless steel headers
- Heat exchangers
- PED Certification
- Full-stream or side-stream filtration
- Designed with thermal heat transfer fluids for high/low temperature
- Specific performance criteria (upon request)



PROCESS COOLING WATER

Process cooling water is an integral part of most industrial systems. Envirosep's tailor-made, complete systems meet your needs, regardless of the size. Modular or stand-alone system integration of the complete mechanical room provides rapid installation and start-up. Envirosep engineers and manufactures a variety of industrial systems.



OPEN LOOP

Our open loop envirosep PCW design is used in applications where intermittent loading and wide system temperature swings may be common. The stored volume of process cooling water provides a dampening effect that allows for a more evenly distributed supply temperature process cooling water is continuously maintained at desired temperature by utilizing closed circuit cooling towers, chilled water, or evaporative cooling.

CLOSED LOOP

The closed loop design negates the need for high volume storage by utilizing in-line air separation and thermal expansion control. In a closed loop configuration, the process cooling water is continuously maintained at desired temperature by utilizing closed circuit cooling towers, chilled water, or evaporative cooling.



GLYCOL COOLING

A process cooling system which utilizes Propylene or Ethylene Glycol as the cooling medium for environments where freeze-protection is a primary concern. Glycol cooling systems are designed for any concentration of glycol solution, and may be configured in closed-loop or open-loop configurations. Water-cooled or air-cooled chillers may be included as the primary means of cooling.



Specifically engineered and manufactured to site conditions, Envirosep ensures that our systems are designed for optimum energy efficiency for any industrial process cooling application.

TECHNICAL DATA

TYPICAL SPECIFICATIONS	
system arrangement	open or closed loop
available system flow rate (gpm)	20 to 20,000
cooling medium	chilled water or glycol
standard power	460/3/60
standard working pressure	150 or 300 psi
standard working temperature	< 200°F

ACCESSORY COMPONENT OPTIONS	RANGE
air separator (tangential/in-line) (in.)	4 to 24
chemical shot feeder (gal)	2 to 12
solid separators (gpm)	100 to 12,500
heat exchangers (plate & frame or shell & tube)	as specified
water storage tanks (gal)	100 to 5,000