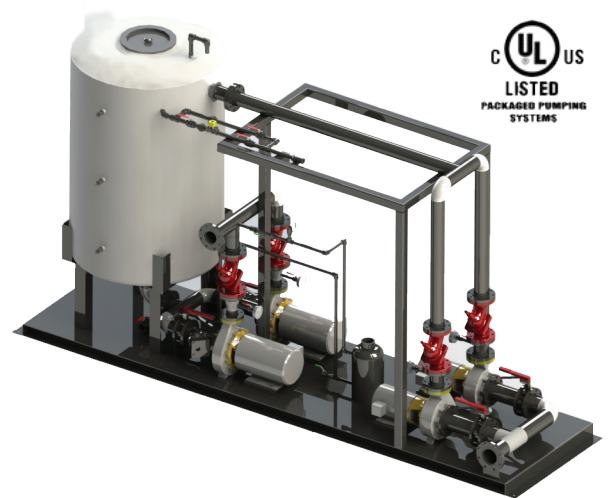


envirosep PAC

## PACKAGED AIR COOLED CHILLER SYSTEMS

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 engineered packaged air cooled chiller systems to our customers.

Our engineered, packaged air cooled chiller systems, *envirosep PAC*, are UL-listed, factory engineered and manufactured systems utilized in conventional building cooling systems using chilled water as the cooling medium. Custom engineering by Envirosep enables the owner to specify key components from a range of manufacturers that meet performance needs. Our knowledgeable engineering staff is available to assist facility owners or engineers in conceptual development and planning.



### FEATURES & BENEFITS

- Our *envirosep PAC* is factory manufactured, tested and UL-listed ensuring quality and NEC code compliance
- Sole source manufacturing responsibility with just one manufacturer to coordinate
- All components required to integrate a stand-alone air cooled package are included, eliminating site coordination and negating start-up irregularities.
- Our *envirosep PAC* provides a lower cost alternative to site-built air cooled systems while avoiding costly project delays
- The *envirosep PAC* is controlled by a non-proprietary packaged system optimization controller, providing the best system operating efficiency
- Speeds up installation and start-up which provides significant savings to contractors, engineers and facility owners
- Factory hydrostatic and operational testing performed prior to shipment
- Envirosep provides a dedicated project manager to coordinate all aspects of production, delivery, and site installation assistance

### SYSTEM DESIGNS INCLUDE:

- Energy-efficient scroll or screw chillers fully mounted on a common base
- Fully designed pumping systems – either for secondary distribution or variable primary
- Hydronic accessories-air separators, expansion tanks, & buffer tanks
- Variable frequency drives (VFD) & multi-chiller controller with touchscreen interface
- Differential pressure, temperature & flow transmitters provided as needed
- Communication interface to Building Management System (BMS)
- Outdoor rated electrical and pumping equipment

### PACKAGED SYSTEM OPTIONS INCLUDE:

- Stand-alone hydronic packages when the pump is integrated with the chiller
- Internet connectivity for remote system monitoring
- glycol feed systems
- Chemical treatment
- Environmentally-controlled building enclosure with single-point power connection for outdoor use
- Insulation available



## HYDRONIC ACCESSORIES PACKAGE OPTION

The *envirosep PAC* includes the option for a stand-alone hydronics package when the chiller contains an integrated pump(s). Our accessories package may include: VFDs, air separators, expansion tanks and buffer tanks. All accessories are mounted to a common base, are outdoor rated or may be enclosed in environmentally-controlled building with single point power for outdoor use.



## PUMPING SYSTEM PACKAGE OPTION

The *envirosep PAC* includes the option for a stand-alone pumping system package which can be installed next to the air cooled chiller. Our pumping system packages include energy efficient pumps that best meets the application or is specified. It may include hydronic accessories such as air separators, chemical shot feeders, expansion tanks and buffer tanks. All pumps and accessories are mounted to a common base, are outdoor rated or may be enclosed in environmentally-controlled building with single point power for outdoor use.

## AIR COOLED CHILLER PACKAGE

The *envirosep PAC* may be provided as a single, UL listed, complete package system shipped in one-section. Components include: air cooled chiller, pumps, hydronic accessories, piping, valves and fittings, controls, power panel, and VFDs with components rated for outdoor use. All components are mounted on a common base. The *envirosep PAC* may include the option of an enclosed pump and accessory house with chiller all on one common base. One-section air cooled chiller plants provide for the most simple installations as minimal field piping and power connections are required.



## TECHNICAL DATA

SYSTEM CONDITIONS	RANGE
cooling load per chiller (tons)	40 ≤ 400
chilled water temperature (°F)	28 to 60
standard power (V)	460 (other available)
working pressure (psi)	150 or 300
working temperature (°F)	< 140

ACCESSORY COMPONENT OPTIONS	RANGE
air separator (tangential/in-line) (in.)	4 to 24
expansion tank (gal)	6 to 211
chemical shot feeder (gal)	2 to 12
glycol feeder (gal)	17 to 50
buffer tank (gal)	150 to 1030