

envirosep IWH, IWH-C, IWH-WW, IWH-PF

INSTANTANEOUS WATER HEATERS

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 instantaneous water heater systems to our customers.

Our packaged water heater system designs have proven to be a benchmark solution with outstanding reliability and robust construction for the most challenging commercial or industrial environments. Our systems are specifically engineered and manufactured for use in hot water-to-hot water, steam-to-hot water or unfired steam-to-hot water applications.

FEATURES & BENEFITS

- Our *envirosep IWH* systems are factory manufactured, tested and UL-listed ensuring quality and NEC code compliance
- Sole source manufacturing responsibility, just one manufacturer to coordinate
- Our *envirosep IWH* systems are cost effective - offering fixed costs and on-time delivery coordinated with site (factory controlled environment means no weather delays)
- Our water heater systems may be configured for steam-to-hot water or hot water-to-hot water using plate and frame or shell & tube heat exchangers to fit your application
- 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:

- ASME, shell & tube or plate & frame heat exchanger - stainless steel water side with U-stamp
- Self-contained, pilot-operated or pneumatic modulating steam control valves
- High temperature cut-off switch, for independent source steam isolation
- Secondary high temperature purge system, with blowdown controls
- Internal circulation pump
- UL-Listed, NEMA 12 industrial control panel
- Float & thermostatic steam trap
- Outlet temperature indication
- Safety relief valves
- Removable tube section (envirosep IWH)
- Space saving design (envirosep IWH-PF)

INSTANTANEOUS WATER HEATER OPTIONS:

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| • PLC system controller | installations) |
| • NEMA 7/9 explosion-proof rating | • Steam-powered or electric condensate pumps |
| • Inlet steam condensate removal | • Filtration |
| • Multi-staged centrifugal pumps | • Specific performance criteria (upon request) |
| • System recirculation pumps (including horizontal | |



INSTANTANEOUS WATER HEATER SYSTEMS

envirosep IWH

The *envirosep IWH*, instantaneous steam-to-water heater is a simple and accurate manufactured, ready-to-install system designed to address the requirements of commercial potable water heating systems. Designed to utilize steam as the heat source, the steam is supplied to the heater at a predetermined 2 to 60 psig (depending on required output). The *envirosep IWH* is constructed of stainless steel, copper, and bronze components suitable for domestic water use. Capable of handling a wide range of water flow rates (5 to 300 gpm) and temperatures (50 to 200°F), while being custom-tailored to your specific site needs, makes this system an ideal choice for either new or replacement installations.



envirosep IWH-PF

Envirosep IWH-PF, instantaneous water heaters with plate & frame design are specifically designed and manufactured for hot water systems with continuous loading. The system is designed to heat water, on-demand; without the need for storage of hot water, resulting in less square footage required for mechanical equipment. An internal circulation pump is provided to obtain an even temperature profile throughout the heater. The *envirosep IWH-PF*, instantaneous water heater with plate & frame design, may be manufactured to include a system recirculation pump, which is recommended for maintaining hot water loop temperature. Electrical controls may be provided with PLC programmable controllers or simple, relay logic.



envirosep IWH-WW

The *envirosep IWH-WW*, instantaneous water-To-water heater is a simple and accurate manufactured, ready-to-install system designed to address the requirements of commercial heating systems. These systems can be used in conjunction with any opportunities to recover wasted thermal energy. Designed to utilize water as the heat source, the system can be used with boilers, chillers, and many other situations. The standard *envirosep IWH-WW* is constructed of stainless steel, copper, and bronze components suitable for domestic water use. Capable of handling a wide range of water flow rates (5 to 500 gpm) and temperatures (50 to 200°F), while being custom-tailored to your specific site needs, makes this system an ideal choice for either new or replacement installations.



envirosep IWH-C

The *envirosep IWH-C* instantaneous water heaters may be custom-engineered to satisfy requirements unique to more sophisticated, industrial applications. Virtually any system configuration may be engineered by the Envirosep team, utilizing process parameters provided by the client or end-user. Once the process variables are analyzed, general layout drawings are prepared for approval. Electrical controls may be provided with PLC programmable controllers or simple, relay logic. Envirosep maintains flexibility to ensure all special needs are incorporated into the final system design.



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