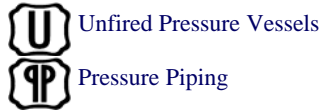
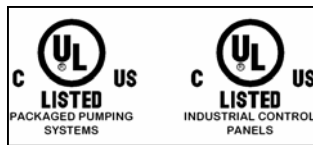


**Model #**  
**PPS-C**

**Packaged Pumping System**  
**for Closed Systems**



TYPICAL SPECIFICATIONS	
System Configuration	Closed Circuit (any qty. of Pumps)
Fluid Temperature	50 to 240 deg F (Other Ranges Available)
Standard System Flow Rate	5 to 3000 GPM
Standard Power	460 V (Other Voltages Available)
Dimensions	Based Upon Customer Requirements
Working Pressure	100 to 600 psig (6.8 to 40 barg)
Working Temperature	< 240 deg F (< 116 deg C)

*EnviroSep PPS-C*, Packaged Pumping System for Closed Systems is a UL-Listed, constant speed, factory manufactured and fully tested system used in fluid handling systems which are configured in closed circuits. The *Model PPS-C* may be configured for pumping a variety of fluids at a controlled flow rate in any industrial or commercial application. Process fluid enters a common, System Header and by use of centrifugal pumps is delivered at a controlled flow rate to a common, System Discharge Header. Air-free, fluid flow is controlled by use of a manually adjusted flow control valve. Also, the *PPS-C* allows for system thermal expansion based on the system volume. A UL-Listed, Industrial Control Panel with single-point power connection is pre-wired to all electrical sources. Each unit is custom-engineered to meet specific system requirements. The *Model PPS-C* speeds installation and start-up of fluid handling systems which provides significant savings to contractors, engineers, and facility owners.

**Standard Features:**

- UL Listing of Complete Package and Control Panel
- Base-mounted, End-suction Pumps
- Differential Pressure Gauges
- Vortex Air Separator, with Auto Air Vent
- Bladder Expansion Tank
- Triple Duty Valves & Suction Diffusers
- UL Listed NEMA 12 Industrial Control Panel
- Make-up Water Assembly, with Safety Relief Valve
- PLC-based System Controller, if required



**Options:**

- Internet Connectivity for Remote System Monitoring
- Interface for Facility Management System
- Auto Pump Staging with PLC Controls
- NEMA 3R/4/4X/7/9 Rating
- Seismic or Vibration Isolators
- Combination Air & Dirt Separator
- ANSI or API Process Pumps
- Split-coupled Vertical Inline Pumps
- Chemical Bypass Feeder
- Flexible Pump Connectors
- Panel Mounted Gauges
- Specific Performance Criteria (Upon Request)



Process Piping & Power Piping

Sep  
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**Specify the following parameters:**

- I. System Flow Rate = \_\_\_\_\_ GPM
- II. System Differential Pressure Required = \_\_\_\_\_ psid
- III. System Inlet Pressure = \_\_\_\_\_ psig
- IV. System Temperature (Min/Max) = \_\_\_\_\_ °F
- V. System Fluid = \_\_\_\_\_ Type
- VI. System Electrical = \_\_\_\_\_ V \_\_\_\_\_ Hz
- VII. System Volume = \_\_\_\_\_ Gal.

Note: Fluid medium assumed to be water, unless otherwise specified.

**SYSTEM OPTIONS**

- Stand-by Pump
- Steam Pressure Gauges
- Pump Suction Diffuser
- Vertical In-line Pump
- Split-coupled Vertical In-line Pump
- Closed-coupled end-suction Centrifugal Pump
- Auto standby pump start on lead pump failure
- Auto Pump Alternation
- Remote start connection
- System drain valves
- Flexible Connectors
- Vibration Isolation
- Panel-mounted Differential Pressure Gauges
- Pump Run-time Hour Meter
- Outdoor-use Rating
- Outdoor Cabinet
- System Inlet/Outlet Isolation Valves
- System Flow Switch
- Differential Pressure Switch across Pump suction/ discharge

Regardless of system size, temperature, pressure, fluid medium, or space requirements, *EnviroSep* can provide solutions to all specialized needs.

**Model #**  
**PPS-C**

**Typical Specifications for PPS-C**

Furnish and install one *EnviroSep* Model PPS-C- [A] - [B] - [C] - [D] Packaged Pumping System with the system capacity to pump \_\_\_\_\_ GPM of \_\_\_\_\_ (fluid) from \_\_\_\_\_ psig to \_\_\_\_\_ psig. .

**KEY:**

[A] = Model # (GPM)

[B] = # of pumps (1,2,3,etc.)

[C] = Parallel (P) or Stand-by (S) pump designation

[D] = Manual (M) or Automatic (A) alternation for multiple pumps

**GENERAL** - This package shall be factory assembled with pump(s), fabricated steel frame, interconnection piping ( welded per ASME Section IX certified welders), UL-listed Industrial Control Panel factory wired for single-point field connection per NEC.

**PUMPS**-Pump(s) shall be single, end-suction type with radially split, top center-line discharge, self-venting casing. Pump construction shall be cast iron, bronze fitted and shall be fitted with a long-life, product lubricated, drip tight mechanical seal, with O-ring seat retainer. Impeller shaft to be 416SS fitted with a SS shaft sleeve and be supported by two heavy duty ball bearings. The design shall allow back pull out servicing, enabling the complete rotating assembly to be removed without disturbing casing piping connections. The pump shall be mounted on a rigid, single base plate and by flexible with guard to the motor. Seal shall be rated for continuous duty at 270°F, motor shall be open drip proof, NEMA MG-1 with 1.15 service factor

**TRIPLE DUTY VALVE**- System shall include, on the discharge of each pump, a combination valve incorporating three functions in one body: tight shut-off, spring closure type silent non-slam check, and flow measured/throttling. Valve body shall be ductile iron with two ¼" NPT connections on each side of the valve seat. The valve disc shall be bronze plug disc type with high impact engineered resin seat to ensure tight shut-off and silent check valve operation. Valve stem shall be SS with flat surfaces provided for adjustment with open end wrench.

**AIR REMOVAL EQUIPMENT**- System shall include one tangential air separator with internal stainless steel collector tube. Connections to be flanged with a rating of 150 psig. System shall be equipped with ¾" Pressure Relief Valve, ¾" Pressure Regulating Valve, ASME Compression / Expansion Tank (sized by or provide system volume and temperature difference), and tank fitting, sight glass, and tank drain connections to tank

**SUCTION DIFFUSER**- System shall include, on the suction of each pump a suction diffuser with cast iron body, outlet guide vanes and removable SS strainer.

**CONTROL PANEL** - System shall include one (1) UL - Listed, NEMA 12, Industrial Control Panel with single-point power connection, pre-wired to all electrical components. Panel shall have thru-the-door fused disconnect; magnetic circuit breaker supplementary motor protector with fast-closing contacts, non-reversing 3-pole contactor, and variable setting, bi-metallic overload relay for each motor; 30 mm Foundry-duty switches; 30 mm Corrosion Resistant pilot lights; control transformer; Automatic Alternator (if required). Operation of each pump shall be Hand-Off-Auto with external connection to terminal blocks. When standby pump(s) are used, the standby pump(s) shall manually/ automatically (customer specified) start on primary pump failure. All internal wiring shall be placed in conduit.

**MANUFACTURER** - Shall assume system liability, and performance guarantee and warranty all equipment on system for 12 months after initial start-up.



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