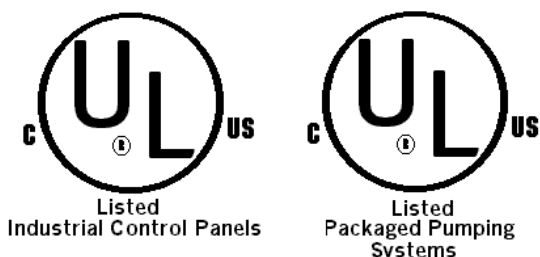


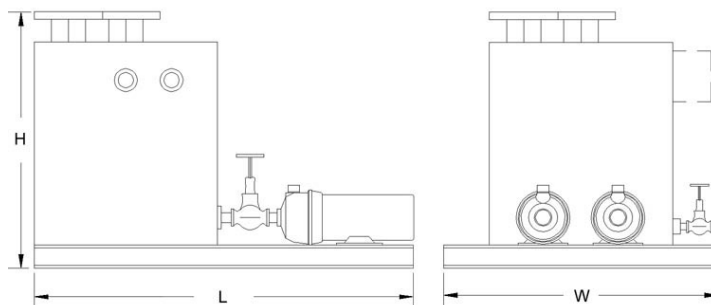
## Economy Electric Condensate Duplex Pump Package Model EEC-P-D

The Model **EECP-D**, Economy Electric Condensate Pump Package is a Duplex condensate pumping unit which is manufactured as a ready-to-install system featuring a Stainless Steel Condensate Receiver and Stainless Steel, End Suction Pumps. Designed for economical and efficient pumping of condensate, **EECP-D** utilizes the efficient design of Centrifugal Pumps which delivers more discharge head at less horsepower. The **EECP-D** includes pump suction isolation valves for each pump. Stainless Steel construction is utilized to prolong the life of systems subject to corrosive condensate. A mechanical alternator is standard for automatic alternation of the Lead Pump. A NEMA 12, UL-Listed Industrial Control Panel with single-point power connection is furnished pre-wired to all electrical sources. The complete package is UL-Listed.



### CONDITIONS OF OPERATION

|  |                         |
|--|-------------------------|
| Max. Allowable Pressure / Temperature: | 70 psig / 200 °F        |
| Discharge rate per pump:               | 3 to 150 gpm - nominal  |
| Motor size per pump:                   | ½ to 5 Hp, 3 ph., 60 Hz |



### Legend:

- A. Condensate Inlet
- B. Vent
- C. Condensate Discharge (2)
- D. Auxiliary Connection A
- E. Auxiliary Connection B
- F. Receiver Tank
- G. Drain

### STANDARD CONSTRUCTION

- Fabricated Structural Channel Frame
- Stainless Steel Condensate Receiver
- Suction Isolation Valves
- Open Impeller, End Suction Pumps
- UL-Listed Industrial Control Panel
- Hydrostatically Tested
- High Temperature Enamel Coating on base

### PACKAGE OPTIONS

- Pump Discharge Flow Throttling Valve & Check Valve
- Additional / Oversized Condensate Inlet connection(s)
- Gauge Glass on Receiver
- Carbon Steel Condensate Receiver
- Oversized Condensate Receiver
- Oversized Atmospheric Vent(s)
- Pump Discharge Pressure Gauges
- Overflow Pipe to 6" height above base
- Forged Steel Gate Valves
- Pump Run-time Meter
- Low-profile design for height restricted applications
- All Welded piping
- Fabricated Square Tubing Frame

Regardless of system size, temperature, pressure, fluid medium, or available floor space, **EnviroSep** can service all specialized needs.

**Model EEC-P-D**  
**Packaged Pumping System Order Form**

Form 00-EECP-D

**Specify the following parameters:**

- I. System Condensate Load = \_\_\_\_\_ lb/hr
- II. System Discharge  
Pressure Required = \_\_\_\_\_ psig
- III. Condensate Return Temperature = \_\_\_\_\_ °F

Note: Tube-side medium assumed to be water, unless otherwise specified.

**SYSTEM OPTIONS**

|   |  |
|---|--|
| Additional / Oversized Condensate Inlet Connections | Remote start connection                    |
| Oversized Condensate Receiver                       | Receiver Drain Valve                       |
| Carbon Steel Condensate Receiver                    | Gauge Glass on Receiver                    |
| Horizontally-mounted Receiver                       | Receiver Thermometer                       |
| Oversized Atmospheric Vent                          | High Level Alarm                           |
| Pump Discharge Pressure Gauges                      | Low Level Alarm                            |
| Pump Suction Strainers                              | Panel-mounted Differential Pressure Gauges |
| Stand-by Pump                                       | Pump Run-time Hour Meter                   |
| Auto standby pump start on lead pump failure        | Outdoor-use Rating                         |
| Auto Electric Pump Alternation                      | Condensate Inlet Isolation Valves          |
| Mechanical Alternator                               |  |
| Float Switch  |  |

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

**EnviroSep • Fluid & Heat Recovery Systems**  
A Division of TMT, Inc.  
PO Box 857 • Georgetown, SC 29442  
Phone (843) 546-7400 / Fax (843) 546-7407  
WWW.ENVIROSEP.COM

## Typical Specifications for EECP-D

Furnish and install one **EnviroSep** Model EECP- [A] - [B] - [C] - [D] Electric Condensate Pump Package with the system capacity to pump \_\_\_\_\_ lb/hr at a discharge pressure of \_\_\_\_\_ psig from the pump(s).

### KEY:

[A] = Model # (Nominal Flow from each pump- GPM)

[B] = # of pumps (1 = S, 2 = D, 3 = T, 4 = Q)

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

[D] = Mechanical (M) or Electric (E) alternation for multiple pumps

**GENERAL** - This package shall be factory assembled with pump(s), condensate receiver, pump suction isolation valves, fabricated steel frame, mechanical alternator (where applicable) interconnection piping (welded per ASME Section IX certified welders), (optional) UL-listed Industrial Control Panel factory wired for single-point field connection per NEC, and the complete package shall be UL-Listed as a Packaged Pumping System.

**PUMPS**-Pump(s) shall be a Stainless Steel, End Suction Centrifugal Pump(s) with a capacity of \_\_\_\_\_ GPM @ \_\_\_\_\_ psig discharge head. The maximum speed of the pump shall not exceed 1750 RPM. Pump shall be of the vertically split case design with removable bearing housings and shall be furnished with mechanical seals. The suction connection shall be in the top vertical position and the discharge connection shall be in the top horizontal position. The impeller(s) shall be located on a stainless steel shaft between sealed grease lubricated ball bearings. 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 240°F, motor shall be open drip proof, NEMA MG-1 with 1.15 service factor

**CONDENSATE RECEIVER** – Condensate Receiver shall be constructed of polished, 304L Stainless Steel and shall be GTAW welded per ASME Section IX certified welders. The receiver shall have the capacity of \_\_\_ gallons and shall be of the vertical-mounted design. The mounting height of the receiver shall be of adequate height to permit a minimum of 2 ft. NPSH available to the system pumps when the condensate temperature is 200°F. The receiver shall be supported by rigid structural steel supports to adequately support the receiver when completely full of water. Connections shall be provided for Atmospheric Vent, Condensate Inlet, Pump Suction Connections, Receiver Drain connection, two (2) auxiliary connections, and connection for internally-mounted mechanical alternator.

**MECHANICAL ALTERNATOR** - System shall include, on the receiver, a combination float switch, mechanical alternator which shall be horizontally mounted in the receiver. The alternator shall be NEMA I, Square D Series 9038, (with) (without) auxiliary standby float switch. The alternator shall automatically alternate the lead pump of the

system and shall automatically start all system pumps as the system demand requires.

**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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