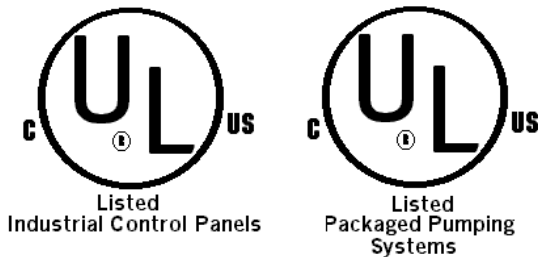


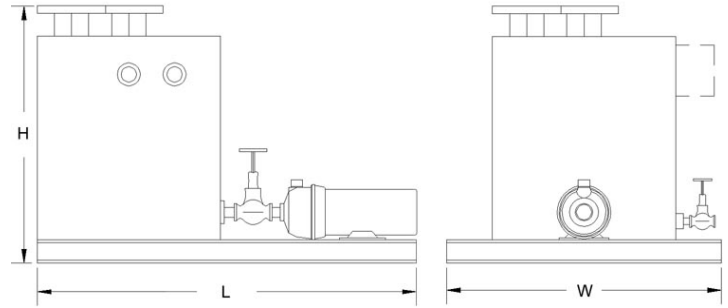
**Economy Electric Simplex  
 Pump/Tank Package  
 (Open Impeller)  
 Model EEPTO-S**

The Model **EEPTO-S**, Economy Electric Simplex Pump/Tank Package is a pumping unit which is manufactured as a ready-to-install system featuring a Stainless Steel Receiver and a Stainless Steel, End Suction Pump. Designed for economical and efficient pumping, **EEPTO-S** utilizes an Open Impeller Pump, which allows for passing of solids up to 3/8", allowing the **EEPTO-S** to operate in "less-than ideal" system applications. The **EEPTO-S** includes pump suction isolation valves for each pump. Stainless Steel construction is utilized to prolong the life of systems subject to corrosive fluids. A mechanical float switch is standard for automatic pumping. 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:	1/2 to 7 1/2 Hp, 3 ph., 60 Hz



**Legend:**

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

**STANDARD CONSTRUCTION**

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

**PACKAGE OPTIONS**

- Pump Discharge Flow Throttling Valve & Check Valve
- Additional / Oversized Inlet connection(s)
- Gauge Glass on Receiver
- Carbon Steel Receiver
- Oversized Receiver
- Oversized Atmospheric Vent(s)
- Pump Discharge Pressure Gauge
- 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 EEPTO-S  
Packaged Pumping System Order Form**

Form 00-EEPTO-S

**Specify the following parameters:**

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

**SYSTEM OPTIONS**

Additional / Oversized Inlet Connections

Oversized Receiver

Carbon Steel Receiver

Horizontally-mounted Receiver

Oversized Atmospheric Vent

Pump Discharge Pressure Gauges

Pump Suction Strainers

Stand-by Pump

Auto standby pump start on lead pump failure

Auto Electric Pump Alternation

Mechanical Alternator

Float Switch

Remote start connection

Receiver Drain Valve

Gauge Glass on Receiver

Receiver Thermometer

High Level Alarm

Low Level Alarm

Panel-mounted Differential Pressure Gauges

Pump Run-time Hour Meter

Outdoor-use Rating

Inlet Isolation Valves

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](http://www.envirosep.com)

# Typical Specifications for EEPTO-S

Furnish and install one **EnviroSep** Model EEPTO- [A] - [B] - [C] - [D] Electric 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), 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, Open Impeller, End Suction 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

**RECEIVER TANK** – 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 fluid 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, Inlet, Pump Suction Connections, Receiver Drain connection, two (2) auxiliary connections, and connection for internally-mounted mechanical alternator.

**MECHANICAL FLOAT SWITCH** - 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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