EnviroSep
FLUID & HEAT RECOVERY SYSTEMS
A DIVISION OF TMT, INC.

Condensate Pump/Pot Packaged Pumping System

(Base-Mounted End-Suction Centrifugal Pump)

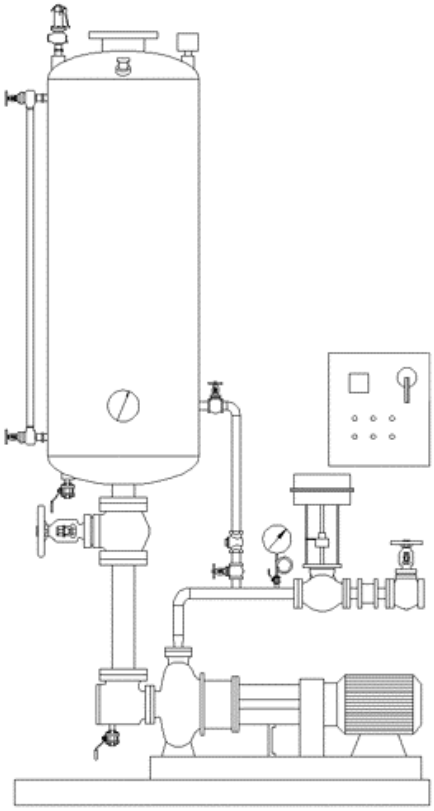
The Model **CP-30**, Condensate Pump/Pot, Packaged Pumping System, is a manufactured, ready-to-install system designed for installation on process heat transfer sources. The Condensate Pump/Pot, Packaged Pumping System allows the heat transfer source to operate at optimum conditions by efficiently removing condensate, increasing the heat transfer efficiency. The result is substantial savings in energy costs at attractive pay-back periods because there is no Flash Steam Loss. Designed for efficient pumping of condensate, **CP-30** is not vented to atmosphere, therefore there is no additional piping needed for a large vent. The **CP-30** utilizes an End-suction, Base-mounted, ANSI rated, Centrifugal Pump which offers premium pumping of process fluids. The Condensate Pump/Pot is controlled by a proportional level transmitter, which is accessible through top entry, to modulate the discharge control valve, permitting continuous removal of condensate proportional to actual steam consumption. A UL-Listed, Industrial Control Panel is prewired to all electrical sources. The system carries as standard a UL-Listing as a Packaged Pumping System.

MODEL CP-30 SAVINGS

System Steam Pressure (psig)	Energy Savings (MM Btu/yr.)	Potential Savings ($ /yr.)
125	18,088.56	**90,442.80**
100	16,255.26	**81,276.30**
80	14,299.74	**71,498.70**
60	12,222.00	**61,110.00**
40	9,533.16	**47,665.80**
30	7,944.30	**39,721.50**
20	5,988.78	**29,943.90**
15	4,888.80	**24,444.00**
10	3,544.38	**17,721.90**
5	2,077.74	**10,388.70**

NOTES:

1. Savings are based on max. potential savings at max. pump capacity on 8400 hr./yr. of continuous operation
2. Steam costs at $5.00/MM Btu
3. Savings based on approx. calculations.
4. Savings are based on the elimination of Flash Loss; Actual savings are derived by actual site conditions.



Legend:

Approximate Dimensions: 128”H x 66”L x 36”W

A. Condensate Inlet 6” FLG
B. Condensate Discharge 1 ½” NPT
C. Relief Valve Outlet 3” NPT
D. Pump Drain ½” NPT
E. Receiver Tank 24”x 72”
F. Tank Drain ½” NPT

CONDITIONS OF OPERATION

Max. Allowable Pressure / Temperature:	150 psig / 450 ^{o}F
Modulating Discharge Rate:	30 gpm @ 115 ft. 15,000 lb/hr @ 115 ft.
Max. Instantaneous Discharge Rate:	80 gpm @ 95 ft.
Electrical Requirements:	8.6 FLA-480 Volts 16.2 FLA-240 Volts
Minimum Recirculation Flow Rate:	20 gpm @ 119 ft.

EnviroSep • Fluid & Heat Recovery Systems
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MODEL CP-30 CAPACITIES

Steam Pressure (psig)	Control Valve (in.)	Discharge Head (psig)	Flow Rate (lbs. / hr.)
15	1	15	37,032
15	1	40	22,677
15	1	50	13,093
15	3/4	40	18,517
30	1	15	42,223
30	1	40	34,640
30	1	60	26,186
30	1	70	15,516
60	3/4	15	34,937
60	3/4	40	30,313
60	3/4	60	26,187
60	3/4	100	11,711
100	1/2	50	23,521
100	1/2	75	20,370
100	1/2	125	11,993
125	1/2	75	22,926
125	1/2	100	20,370
125	1/2	125	11,747
150	1/2	100	22,930
150	1/2	150	16,632

Note:
1. The above capacities are for reference only; consult factory for desired capacity based on actual site conditions.

STANDARD CONSTRUCTION

- Fabricated Channel and Angle Iron Frame
- Fabricated Steel Tank with Cast Iron Gate Valve on Pump Suction
- Thermostatic Air Vent and Vacuum Breaker
- 4 - 20 ma Level Transmitter; Level Gauge Glass with Isolation Valves
- ASME Section IX Certified Welding
- Base-mounted, End-suction, Centrifugal Pump; Pump Suction Diffuser with Strainer; Pump Discharge Pressure Gauge; Low-flow, Auto-recirculation
- UL-Listed Industrial Control Panel with Single-point Power connection; Level Controller with Digital LCD Display; NEMA 12 Enclosure
- Tank Thermometer
- Pressure Relief Valve
- Hydrostatically Tested
- High Temperature Industrial Enamel Paint

PACKAGE OPTIONS

- Additional / Oversized Condensate Inlet connection(s)
- Oversized Condensate Receiver
- Tank-mounted Pressure Gauge
- Reflex Level Gauge Glass
- Forged Steel or Cast Steel Gate Valves
- Low-profile design for height restricted applications
- Condensate Discharge Flowmeter with Panel-mounted Digital Display
- Fabricated Square Tubing Frame
- Duplex Pump Design with Automatic Secondary Pump Start on Primary Pump Failure
- NEMA 4 or 4X Enclosure
- All Stainless Steel Construction

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

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