

ECONOMY PUMP STATIONS

TYPICAL APPLICATION

Light chemical duty and debris free liquids.

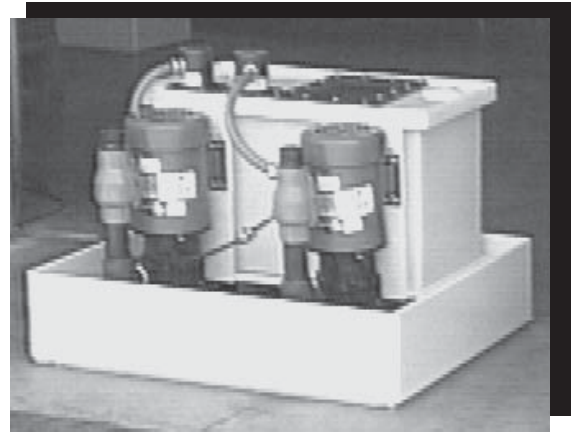
Lab sink collection and pumping.

Safety shower and eye wash collection and pumping.

Condensate collection and pumping.



The above station is an EPS-105-36. Simplex single contained pump station with a 12"x12"x12" Tank.



The above station is an EPS-405-48. Duplex Dual contained pump station with a 24"x12"x12" Tank.

CHECK AND COMPARE OUR STANDARD FEATURES

Run dry capability for up to 8 hours.

Quiet pump operation facilitates laboratory undersink installations.

High pump efficiency means less horsepower for more pumping capacity.

Standard delivery typically 3 weeks.

Discharge check(s) and pump isolation valve(s) included.

20 amps at 120 Vac operation.

Welded primary tank cover helps insure water tight integrity.

Down pipe on inlet to prevent turbulence in tank.

Internal strainer and sight glass /clean out hatch.

Factory wired and tested ready for operation.

Design allows easy periodic facility maintenance.

Primary tank standoffs permit easy visually leak inspection.

Dual containment drip pan construction simulates industry standard tank berm construction.

Secondary alarm level switch for monitoring spills in the dual containment tank.

Dual containment volume of 120% or better than that of the primary tank.

An owner's manual ships with each station.

Komand-O-Lot™ Liquid Level Controller(s).

Welded tank fittings for a better leak tight seal.

Roto-molded Polypropylene tanks provide superior performance to that of less expensive polyethylene tanks.

Safe and Reliable Pump Station Selection - In selecting a pump station, the total system design must be considered to assure safe, trouble-free performance. Pump Station and component function, overall system design, material compatibility, adequate power ratings, proper installation, operation and maintenance are the responsibility of the system designer and user. Please feel free to ask for a copy of our Product Warranty.

SIMPLEX OPERATION

As liquid enters the holding tank, the level in the tank rises. This in-turn lifts the float on the level controller. When the level in the tank reaches a pre-determined height, the level controller activates the pump. The pump begins to discharge the liquid, therefore lowering the level in the tank, until the float reaches the low off point. Then the pump stops and the level in the tank begins to rise again. To install, simply connect the incoming liquid line to the inlet on the cover, and the discharge line to the outlet. It is strongly recommended that you have a qualified electrician wire 120 Vac power to the pump station.







DUPLEX OPERATION

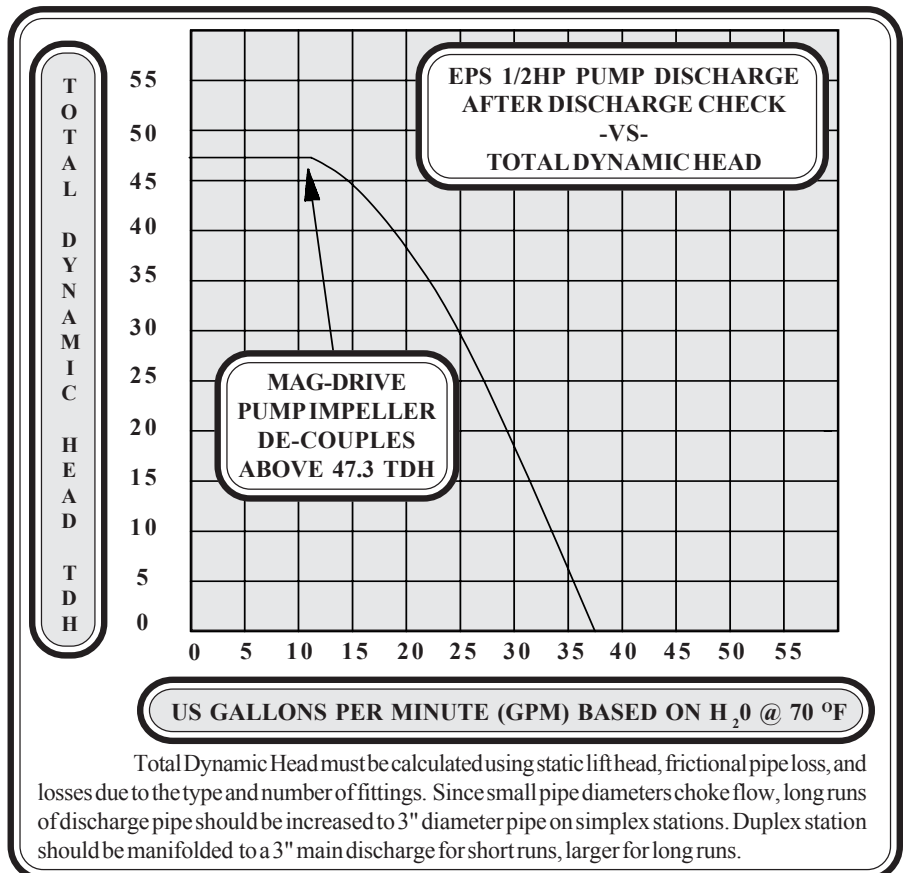
As the liquid enters the holding tank, the level rises lifting the floats until it reaches the high level position of the lead pump level controller. The lead pump is activated discharging liquid, hence lowering the float to the low pump off set point. If the incoming flow is greater than the output capacity of the lead pump, or if the lead pump should fail, the level in the tank would continue to rise activating the lag pump via the lag pump level controller. The lag pump level controller is set to turn the pump on approximately one inch higher than the lead pump on point. Both pumps will continue to run until the low off points are reached. (The use of two level controllers is a redundant safety feature)

MATERIALS OF CONSTRUCTION

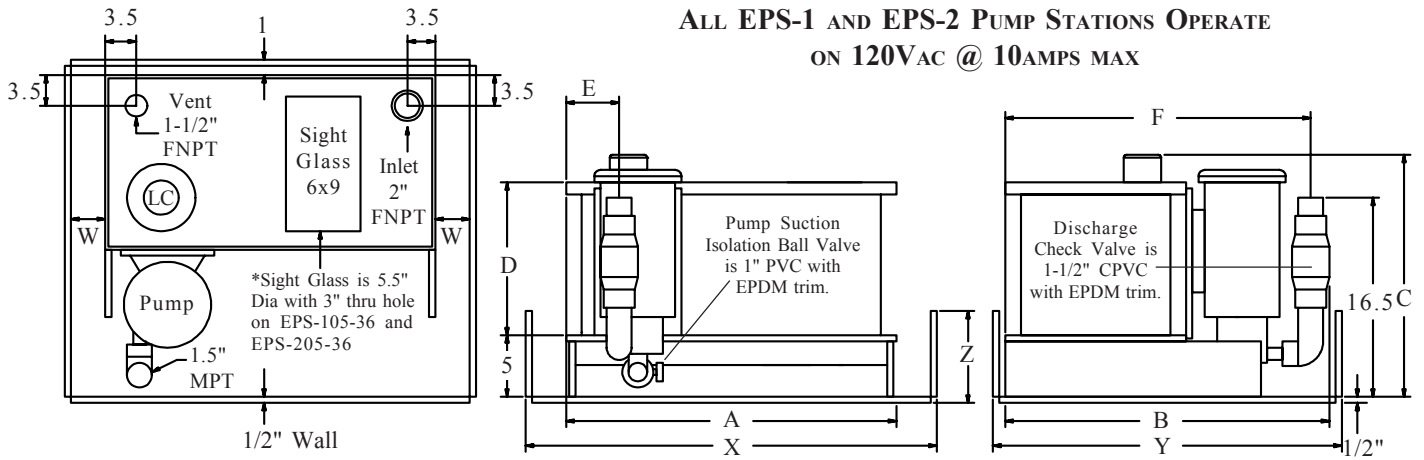
The containment tanks are constructed out of molded polypropylene. The tank cover is 1/2" thick polypropylene welded on to the tank and is machined to accept the level controller(s), clear PVC sight glass, inlet, and female 1-1/2" FPT vent tap. The level controller(s) and sight glass are mounted using 316 SS bolts. Tank penetrations for the pump suction are also welded to the tank. The level controller wet end has a Polypropylene float and stop ring. The stop ring has a PVC column bolt.

The magnetically coupled pump has a glass filled Ryton housing, two alumina ceramic thrust washers, a Viton O-ring seal for the housing, and a pure carbon impeller bushing. The pump motor is totally enclosed fan cooled. Pump suction and discharge pipe are PVC. Discharge check and pump isolation ball valve are PVC with EPDM trim.

SIMPLEX EPS PUMP STATIONS CONTROLLER			
LEVEL CONTROLLER SET POINTS (inches)	LC-90P	LC-92P	
HH = High Alarm Point H = High Pump ON Point L = Low Pump OFF Point All setpoints are measured from the top of the tank			
Depth of Tank	Set Points	Set points	
12 inch	2H,10L	2HH,5H,10L	
18 inch	2H,16L	2HH,5H,16L	
20 inch	2H,18L	2HH,5H,18L	
DUPLEX EPS PUMP STATIONS CONTROLLERS			
Duplex stations have two liquid level controllers. One to operate the lead pump and one to operate the lag pump	LC-90P	LC-90P	LC-90P LC-92P
			 
Depth of Tank	Pump Set Points	Pump Set points	
12 inch	Lead 3H,10L Lag 2H,10L	Lead 2HH,5H,10L Lag 4H,10L	
18 inch	Lead 3H,16L Lag 2H,16L	Lead 2HH,5H,16L Lag 4H,16L	
20 inch	Lead 3H,18L Lag 2H,18L	Lead 2HH,5H,18L Lag 4H,18L	



**ALL EPS-1 AND EPS-2 PUMP STATIONS OPERATE
ON 120VAC @ 10AMPS MAX**

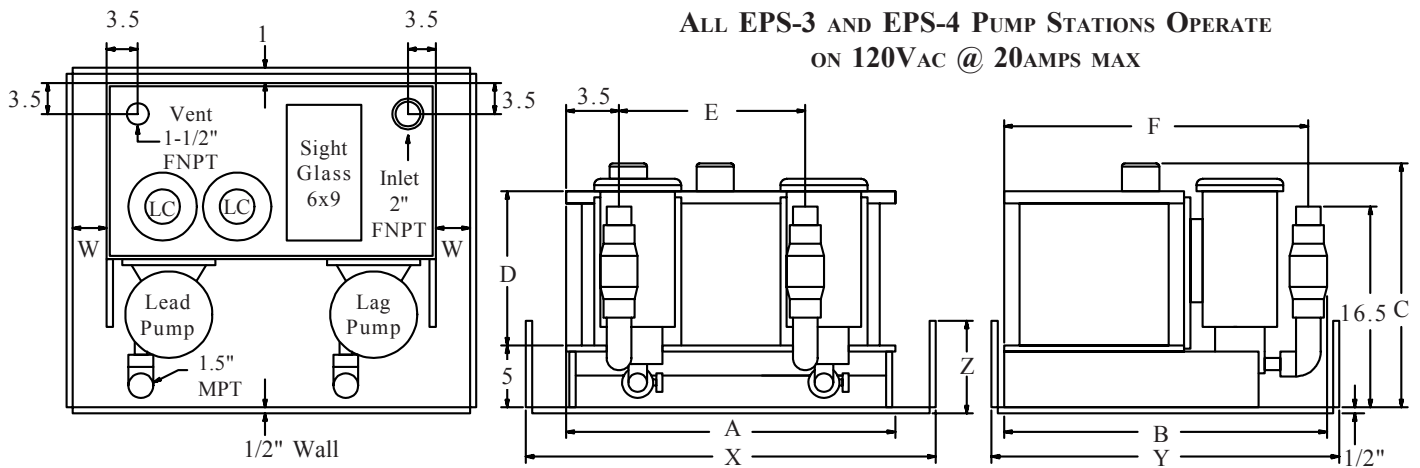


EPS-1 SIMPLEX SINGLE CONTAINED & EPS-2 SIMPLEX DUAL CONTAINED PUMP STATIONS

PART NUMBER	PRIMARY TANK SIZE	TANK CAP. U.S. GAL.	A	B	C	D	E	F	EPS-2 ONLY				SECONDARY TANK CAP. U.S. GAL.
									W	X	Y	Z	
EPS-105-36	12x12x12	7.5	14	26	22	13.5	3.5	25.5	3	21	28	6	12.8
EPS-105-48	24x12x12	15	26	26	22	14	3.5	25.5	3	33	28	7	23.4
EPS-105-54	24x18x12	22	26	32	22	14	3.5	31.5	4	35	34	7.5	33.0
EPS-105-60	24x18x18	33	26	32	28	20	3.5	31.5	4	35	35	9.5	45.0
EPS-105-76	36x20x20	62.5	38	34	30	22	3.5	33.5	5	48	38	10.5	75.2

EPS-1 and EPS-2 dimensions are the same except that the EPS-1 does not have the containment tank
Primary Tank Dimensions are Length x Width x Height. All Dimensions are in inches.

**ALL EPS-3 AND EPS-4 PUMP STATIONS OPERATE
ON 120VAC @ 20AMPS MAX**



EPS-3 DUPLEX SINGLE CONTAINED & EPS-4 DUPLEX DUAL CONTAINED PUMP STATIONS

PART NUMBER	PRIMARY TANK SIZE	TANK CAP. U.S. GAL.	A	B	C	D	E	F	EPS-4 ONLY				SECONDARY TANK CAP. U.S. GAL.
									W	X	Y	Z	
EPS-305-48	24x12x12	15	26	26	22	14	16	25.5	3	33	28	7	23.4
EPS-305-54	24x18x12	22	26	32	22	14	16	25.5	4	35	34	7.5	33.0
EPS-305-60	24x18x18	33	26	32	28	20	16	25.5	4	35	35	9.5	45.0
EPS-305-76	36x20x20	62.5	38	34	30	22	28	27.5	5	48	38	10.5	75.2

EPS-3 and EPS-4 dimensions are the same except that the EPS-3 does not have the containment tank
Primary Tank Dimensions are Length x Width x Height. All Dimensions are in inches.

EPS-1 SIMPLEX SINGLE CONTAINED PUMP STATIONS

PART NUMBER	PUMP HP	PRIMARY TANK SIZE	PRICE* (\$)
EPS-105-36	1/2	12x12x12	1610.00
EPS-105-48	1/2	24x12x12	1656.00
EPS-105-54	1/2	24x18x12	1702.00
EPS-105-60	1/2	24x18x18	1737.00
EPS-105-76	1/2	36x20x20	1785.00

* Price Does Not Include Crating Charge

EPS-2 SIMPLEX DUAL CONTAINED PUMP STATIONS

PART NUMBER	PUMP HP	PRIMARY TANK SIZE	PRICE* (\$)
EPS-205-36	1/2	12x12x12	2760.00
EPS-205-48	1/2	24x12x12	2806.00
EPS-205-54	1/2	24x18x12	3082.00
EPS-205-60	1/2	24x18x18	3120.00
EPS-205-76	1/2	36x20x20	3280.00

* Price Does Not Include Crating Charge

EPS-3 DUPLEX SINGLE CONTAINED PUMP STATIONS

PART NUMBER	PUMP HP	PRIMARY TANK SIZE	PRICE* (\$)
EPS-305-48	1/2	24x12x12	3160.00
EPS-305-54	1/2	24x18x12	3205.00
EPS-305-60	1/2	24x18x18	3250.00
EPS-305-76	1/2	36x20x20	3310.00

* Price Does Not Include Crating Charge

EPS-4 DUPLEX DUAL CONTAINED PUMP STATIONS

PART NUMBER	PUMP HP	PRIMARY TANK SIZE	PRICE* (\$)
EPS-405-48	1/2	24x12x12	4310.00
EPS-405-54	1/2	24x18x12	4585.00
EPS-405-60	1/2	24x18x18	4630.00
EPS-405-76	1/2	36x20x20	4805.00

* Price Does Not Include Crating Charge

ADDITIONAL AVAILABLE OPTIONS

PART NO.	DESCRIPTION	PRICE
OPT-EPS1	High Alarm Switch upgrade. Replace the standard LC-90P with an LC-92P on any station.	\$160.00
OPT-VID1	Start up and installation Video Tape	\$52.00
EPS-RUSH	1 Week Rush Service (Check with Factory prior to ordering for availability)	\$440.00
EPS-OM1	Additional of owner manuals	\$12.00

ECONOMY PUMP STATION CRATING CHARGES

EPS-1 AND EPS-3 SIZE CODES	CRATING CHARGE (\$)	EPS-2 AND EPS-4 SIZE CODES	CRATING CHARGE (\$)
36	90.00	36	90.00
48	90.00	48	150.00
54	90.00	54	150.00
60	150.00	60	150.00
76	150.00	76	150.00

EPS Stations can not be shipped via UPS

The Series EPS stations were created to address our customers demand for a quality built light chemical duty pump station. By standardizing the design and pre-building many of the components, we feel we have come up with a feature packed winner. The emphasis in designing this product is on quality, simplicity, easy facility maintenance, faster turn around, and an economical price.

Our VTI Info Fax is on line 24 hours a day to provide you with information when you need it. The VTI Info Fax number is (408) 972-4400. Simply, follow the instructions and be prepared to punch in your fax number when prompted. The information will be faxed to you with in minutes of your request.

Some helpful VTI Info Fax documents for pump stations are:

- The main system menu is document number 2 (2 pg).
- How to size a pump station is document number 208 (9 pg).
- LC-90 Latching Level controller is document number 107 (4 pg).
- LC-92 Latching Level controller is document number 109 (4 pg).
- Product Warranty is document number 191 (2 pg).

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