



# SERFILCO®

Chemical resistant pumps & filters engineered for industry

BULLETIN  
P-624\_J  
10/09/20  
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## COLLECTION AND PUMPING STATIONS

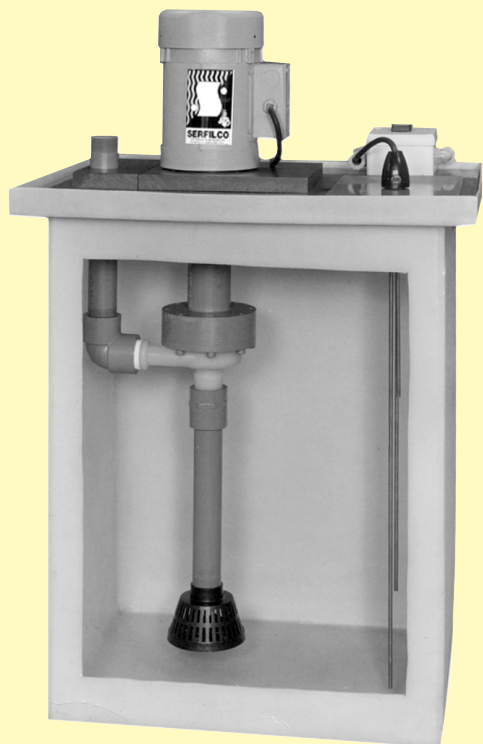
### FOR COLLECTION AND TRANSFER OF:

**WASTE TREATMENT  
ACID NEUTRALIZATION / PLATING RINSE  
PHOTOGRAPHIC & LABORATORY SOLUTIONS  
CHEMICAL STORAGE**

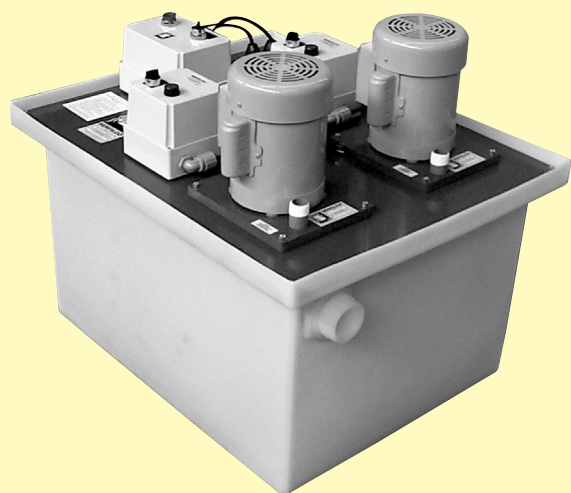
- **Flows to 120 U. S. GPM or 71 ft. TDH @ 60 Hz**  
(380 l/m or 15m @ 50 Hz)
- **Corrosion resistant CPVC pump and HDPE tank**  
for most acid/waste solutions to 140°F (60°C).  
(See a chemical resistance chart)
- **Automatic, self-contained units**  
offer unattended operation
- **Compact and ready-to-use**  
simply make connections and plug in;  
models available to fit under counter tops
- **Maintenance-free vertical pump can run dry**  
seal-less, no bearings, cantilever shaft
- **Duplex systems with high level alarm and electronic alternator**
- **Custom systems** (Consult Sales Dept.)
  - Self-priming horizontal centrifugal pumps
  - Larger sizes available
  - Filter chamber on pump discharge
  - pH and ORP controllers for pH and redox adjustment

Collection and Pumping Stations utilize industrial duty corrosion resistant Series, 'EO' and 'EH' vertical pumps. Units are offered in a variety of capacities and all feature bearing-free pumps as standard. They offer the most economical and reliable means of collecting and transferring corrosive or hazardous wastes that need to be held for batch transfer and are not allowed to go down municipal drains. The systems are conveniently packaged to fit under most lab sinks, into photoprocessing systems or alongside production machines. Pump suction extension empties tank to within 1/2" of the tank bottom. When optional suction strainer is used, the minimum level is 4" above the tank bottom.

Collection and Pumping Station can also serve as a replacement sump to existing leaking or otherwise inadequate sump pit. If installed in an existing pit/tank, it would provide double containment.



**MODEL CPS 115**  
with optional suction strainer



**MODEL CPS 56**  
Alternating duplex pumps with starters

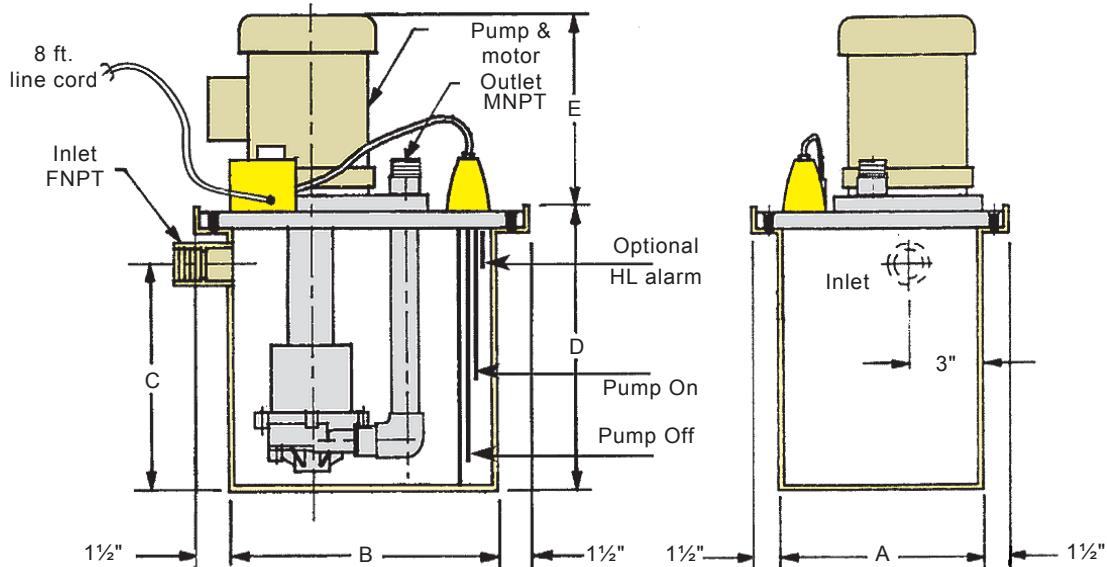


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## DIMENSIONS & SPECIFICATIONS



| MODEL  | TANK SIZE    |        |           | TANK INLET | A    |     | B    |      | C    |     | D    |     |
|--------|--------------|--------|-----------|------------|------|-----|------|------|------|-----|------|-----|
|        | U.S. gallons | Liters | L x W x H |            | in.  | mm  | in.  | mm   | in.  | mm  | in.  | mm  |
|        |              |        | Inches    |            |      |     |      |      |      |     |      |     |
| CPS7   | 7            | 27     | 12x12x12  | 1 1/2"     | 12.5 | 317 | 12.5 | 317  | 10   | 254 | 13.5 | 343 |
| CPS11  | 11           | 42     | 12x12x18  | 1 1/2"     | 12.5 | 317 | 12.5 | 317  | 16   | 406 | 19.5 | 495 |
| CPS14  | 14           | 53     | 12x18x15  | 1 1/2"     | 12.5 | 317 | 18.5 | 470  | 13   | 330 | 16.5 | 419 |
| CPS18  | 18           | 68     | 12x18x18  | 1 1/2"     | 12.5 | 317 | 18.5 | 470  | 16   | 406 | 19.5 | 495 |
| CPS25  | 25           | 95     | 18x18x18  | 1 1/2"     | 18.5 | 470 | 18.5 | 470  | 16   | 406 | 19.5 | 495 |
| CPS30  | 30           | 114    | 12x24x24  | 2"         | 12.5 | 317 | 24.5 | 622  | 21.2 | 538 | 25.5 | 648 |
| CPS37  | 37           | 140    | 18x24x18  | 2"         | 18.5 | 470 | 24.5 | 622  | 15.2 | 386 | 19.5 | 495 |
| CPS44  | 44           | 166    | 18x24x24  | 2"         | 18.5 | 470 | 24.5 | 622  | 21.2 | 538 | 25.5 | 648 |
| CPS56  | 56           | 212    | 24x30x18  | 2"         | 24.5 | 622 | 30.5 | 775  | 15.2 | 386 | 19.5 | 495 |
| CPS75  | 75           | 284    | 24x24x30  | 2"         | 24.5 | 622 | 24.5 | 622  | 27.2 | 691 | 31.5 | 800 |
| CPS90  | 90           | 341    | 24x36x24  | 2"         | 24.5 | 622 | 36.5 | 927  | 21.2 | 538 | 25.5 | 648 |
| CPS115 | 115          | 435    | 30x30x30  | 2"         | 30.5 | 775 | 30.5 | 775  | 27.2 | 691 | 31.5 | 800 |
| CPS150 | 150          | 568    | 24x48x30  | 2"         | 24.5 | 622 | 48.5 | 1232 | 27.2 | 691 | 31.5 | 800 |
| CPS270 | 270          | 1021   | 36x48x36  | 2"         | 36.5 | 927 | 48.5 | 1232 | 33.2 | 843 | 37.5 | 952 |

| PUMP MODEL & FLOW CURVE | MAX. FLOW        |             | MAX. TDH    |           | MOTOR | PUMP OUTLET | E    |     |
|-------------------------|------------------|-------------|-------------|-----------|-------|-------------|------|-----|
|                         | U.S. GPM @ 60 Hz | l/m @ 50 Hz | Ft. @ 60 Hz | m @ 50 Hz |       |             | in.  | mm  |
| EO2                     | 20               | 63          | 18          | 3.9       | 1/8   | 3/4"        | 5.9  | 162 |
| EO1                     | 37               | 120         | 34          | 7.2       | .3    | 1 1/4"      | 9.3  | 236 |
| EO3                     | 50               | 150         | 42          | 8.9       | .75   | 1 1/4"      | 10.4 | 264 |
| EO4                     | 74               | 240         | 52          | 10.9      | 1.0   | 1 1/2"      | 11.4 | 290 |
| EO5                     | 92               | 300         | 71          | 15.0      | 1.5   | 1 1/2"      | 11.4 | 290 |
| EH2                     | 120              | 380         | 65          | 14.0      | 2.0   | 1 1/2"      | 12.2 | 310 |



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Pumps are constructed of CPVC, mounted on a thick PVC tank cover (½", ¾" or 1", depending on model). PVC cover plate is bolted down to the tank with 304SS bolts. Pumps are independently mounted to the CPS cover via their own mounting plate. This allows for "drop in" service or replacement. Tanks are molded rigid HDPE, eliminating leakage. Tank is provided with 1½" or 2" NPT inlet fitting installed near top of side. Motors are chemical duty, TEFC and are rated continuous duty at either 50 Hz or 60 Hz.

Motors for EO4 pumps and smaller (1.0 HP) are single phase and are supplied with 8 ft. line cord with molded plug. Motors for EO5 pumps and larger are three phase.

Level controls are state-of-the-art electronic conductivity type with 316SS probes or float sensors for non-conductive solutions. The level control relay is mounted in a watertight (IP54) PVC enclosure which includes on/off switch with indicating light.

## TO ORDER, use Price Code Number

Select tank size, pump, configuration and level control from the tables below. Combine selections to form the Model and Price Code Numbers. See optional equipment below.

EXAMPLE: TANK + PUMP + CONFIGURATION + LEVEL CONTROL = MODEL & PRICE CODE NO.  
CPS25- + EO1 + -D + C = CPS25-EO1-DC

| TANK                   | PUMP                               | CONFIGURATION                      | LEVEL CONTROL                      |
|------------------------|------------------------------------|------------------------------------|------------------------------------|
| MODEL & PRICE CODE NO. | MODEL & PRICE CODE NO. HP 115V, 1Φ | DESCRIPTION MODEL & PRICE CODE NO. | DESCRIPTION MODEL & PRICE CODE NO. |
| CPS7–                  | EO2                                | Simplex -S                         | Conductivity C                     |
| CPS11–                 | EO1                                | Duplex - Non Alternating -D        | Float sensors F                    |
| CPS14–                 | EO3                                | Duplex Alternating -A              |                                    |
| CPS18–                 | EO4                                |                                    |                                    |
| CPS25–                 |                                    |                                    |                                    |
| CPS30–                 |                                    |                                    |                                    |
| CPS37–                 |                                    |                                    |                                    |
| CPS44–                 |                                    |                                    |                                    |
| CPS56–                 |                                    |                                    |                                    |
| CPS75–                 |                                    |                                    |                                    |
| CPS90–                 |                                    |                                    |                                    |
| CPS115–                |                                    |                                    |                                    |
| CPS150–                |                                    |                                    |                                    |
| CPS270–                |                                    |                                    |                                    |

| MODEL & PRICE CODE NO. | HP 230V, 3Φ |
|------------------------|-------------|
| EO5                    | 1.5         |
| EH2                    | 2.0         |

Consult Sales Dept. for custom systems:  
Special tank materials and sizes, special connections, pump selections and additional add-on equipment not listed as optional.

### GENERAL PRODUCT NOTES:

1. CPS7 will use EO2 pump only.
2. CPS11 will use EO2, EO1, and EO3 pumps only.
3. 'EO5' and 'EH2' pumps available on sizes CPS56 and larger.
4. Duplex configurations available on sizes CPS25 and larger.
5. All 3-phase pumps and single phase pumps greater than 1.0 HP require motor starters. (See optional equipment.)



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## OPTIONAL

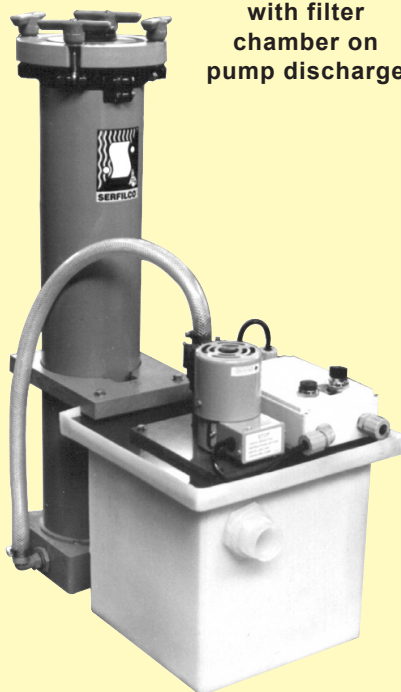
| DESCRIPTION                                                           | PRICE CODE NO. |
|-----------------------------------------------------------------------|----------------|
| Suction strainer                                                      |                |
| EO2 pump                                                              | 39-1007C       |
| EO1 & EO3 pumps                                                       | 39-1002C       |
| EO4 & EO5 pumps                                                       | 39-2002C       |
| EH2 pump                                                              | 45-0162        |
| High level alarm relay (For customer supplied sonic or visual device) | O-1378         |
| Audible alarm (80 decibels) installed                                 | O-1486         |

| DESCRIPTION                                                                    | PRICE CODE NO. |
|--------------------------------------------------------------------------------|----------------|
| 230 volt, single phase<br>(in place of 115V standard)                          | O-HV230        |
| Magnetic starter with H-O-A selector switch in watertight (IP54) PVC enclosure |                |
| - single phase (specify voltage)                                               | O-MS1S         |
| - 3 phase (specify voltage, will change CPS to 3 phase motor)                  | O-MS3S         |
| (1 starter req'd for each pump)                                                |                |

Select accessories individually to complete your chemical collection, treatment or transfer system.

### CUSTOMIZED COLLECTION & PUMPING STATION

with filter chamber on pump discharge



### CUSTOM CHEMICAL PUMP STATION

