

# SELLERS

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## CHEMICAL FEED SYSTEMS AND ACCESSORIES

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SELLERS ENGINEERING CO., MANUFACTURING MECHANICAL EQUIPMENT SINCE 1931.



## PACKAGED CHEMICAL FEED SYSTEMS

### BOTTOM MOUNTED PUMP SYSTEM WITH POLY TANK AND 316 SS AGITATOR

#### SIMPLEX

| MODEL NO           | GPH/PUMP | MAX PRESS (PSI) | MATERIALS OF CONST | TANK CAP (GAL) | SHIP WT (LBS) |
|--------------------|----------|-----------------|--------------------|----------------|---------------|
| SE-CF-1.25.1-50P-1 | 7.0      | 900             | CAST IRON          | 50             | 120           |
| SE-CF-1.25.3-50P-1 | 7.0      | 900             | 316 SS             | 50             | 120           |
| SE-CF-1.25.5-50P-1 | 7.0      | 150             | PVC                | 50             | 120           |

#### DUPLEX

| MODEL NO           | GPH/PUMP | MAX PRESS (PSI) | MATERIALS OF CONST | TANK CAP (GAL) | SHIP WT (LBS) |
|--------------------|----------|-----------------|--------------------|----------------|---------------|
| SE-CF-2.25.1-50P-1 | 7.0      | 900             | CAST IRON          | 50             | 165           |
| SE-CF-2.25.3-50P-1 | 7.0      | 900             | 316 SS             | 50             | 165           |
| SE-CF-2.25.5-50P-1 | 7.0      | 150             | PVC                | 50             | 165           |



### TOP MOUNTED ECONOMY PUMP SYSTEM WITH POLY TANK AND 316 SS AGITATOR (SIMPLEX ONLY)

| MODEL NO           | PUMP GPD | MAX PRESS (PSI) | MATERIALS OF CONST | TANK CAP (GAL) | SHIP WT (LBS) |
|--------------------|----------|-----------------|--------------------|----------------|---------------|
| SE-CF-1.61-30S-N30 | 22.8     | 115             | PVC                | 30             | 27            |
| SE-CF-1.61-50S-N50 | 22.8     | 115             | PVC                | 50             | 38            |



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## CHEMICAL FEED ACCESSORIES

### BYPASS FEEDERS

| MODEL NO   | CAPACITY (GAL) | MAX PRESS (PSI) | MAX TEMP (°F) | SHIP WT (LBS) |
|------------|----------------|-----------------|---------------|---------------|
| SE-BPCF-2  | 2              | 300             | 200           | 23            |
| SE-BPCF-5  | 5              | 300             | 200           | 38            |
| SE-BPCF-10 | 10             | 300             | 200           | 61            |



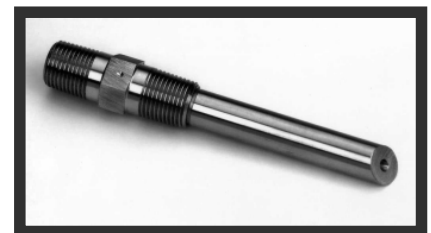
### SAMPLE COOLER

| MODEL NO  | MATERIAL | PRESSURE RATING(PSI) |       | PRESSURE DROP        |                   |
|-----------|----------|----------------------|-------|----------------------|-------------------|
|           |          | COIL                 | SHELL | COIL                 | SHELL             |
| SE-SC-316 | 316 SS   | 3500                 | 250   | 55 PSIG @<br>250 PPH | 3 PSIG @<br>3 GPM |



### INJECTION QUILLS

| MODEL NO  | MATERIAL | MAX PRESS (PSI) | MAX TEMP (°F) | CONN SIZE (NPT) | INSERTION LENGTH (IN) |
|-----------|----------|-----------------|---------------|-----------------|-----------------------|
| SE-HPQ-50 | 316 SS   | 3000            | 750           | 1/2"            | 2-3/4"                |
| SE-HPQ-75 | 316 SS   | 3000            | 750           | 3/4"            | 2-3/4"                |



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## **SAMPLE SPECIFICATIONS**

### **PACKAGED CHEMICAL FEED SYSTEMS**

#### **BOTTOM MOUNTED PUMP SYSTEM**

Furnish and install \_\_\_ (qty) packaged chemical feed system(s). Each chemical feed system shall include \_\_\_ (qty) chemical pump(s), chemical mixing and storage tank, agitator and pump suction and discharge piping.

##### **PUMP**

Shall be hydraulically actuated, high pressure, diaphragm type pump with micrometer dial flow adjustment and double ball check valves on suction and discharge. The check valves shall be removable without the need to disassemble suction or discharge piping. Pump shall be equipped with an integrally mounted, direct coupled 1/3 HP 115 VAC motor.

##### **MIXING & STORAGE TANK**

Tank shall be constructed of polyethylene and include a removable cover, level gauge, float switch, structural steel stand and connections for pump suction, drain, chemical fill, dilution water and relief valve return piping. Drain shall be located on the tank bottom and suction opening shall be located on the tank side, a minimum of 2" above bottom of tank.

##### **AGITATOR**

A clamp mounted agitator with Type 316 stainless steel shaft and propeller shall be furnished. Clamp mount shall allow agitator angle to be adjusted for proper mixing of the chemical/water solution.

##### **PIPING**

Furnish pump suction and discharge piping, fabricated of PVC tubing. Piping shall include:

- Suction isolation valve and strainer
- Calibration column with isolation valve
- Pressure gauge on pump discharge
- Back pressure valve
- Relief valve at pump discharge

Furnish a Type 316 stainless steel injection quill for proper dispersal of chemical solution into boiler feedwater piping.

##### **CONTROL**

Chemical pump motor shall be wired to auxiliary contacts on the boiler feed pump motor starter, so that chemical pump will run whenever boiler feed pump runs.

#### **TOP MOUNTED ECONOMY PUMP SYSTEM**

Furnish and install \_\_\_ (qty) packaged chemical feed system(s). Each system shall include a chemical pump, constructed of PVC with a PTFE diaphragm, which operates on the pulse principal. Pump shall be rated for flow up to 0.94 GPM and pressures up to 115 PSIG. Furnish a self-supporting mixing tank, constructed of polyethylene with a removable cover and agitator with 316 stainless steel shaft and propeller.


### **CHEMICAL FEED ACCESSORIES**

#### **BYPASS CHEMICAL FEEDER**

Furnish and install \_\_\_ (qty) bypass type chemical feeder(s). Feeder body shall be constructed of (11 gauge for 2 gal tank or 10 gauge for 5 or 10 gallon tanks) mild steel with dished heads. Provide angle iron legs for floor mounting. Cap shall be cast iron with Buna N seal. Feeder shall be rated for a maximum working pressure of 300 PSI

#### **SAMPLE COOLER**

Furnish and install \_\_\_ (qty) sample cooler(s). Sample cooler shall be constructed of Type 316 stainless steel and shall incorporate a minimum of 1 Sq./ Ft. of heat exchange surface. Pressure and temperature rating shall be not less than 3500 PSI at 750F.

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