

## 5000 SERIES

Boiler Feed Pumps - Steel Tank

### Technical Specifications

**Sterlco® 5000 Series Boiler Feed Units set new standards of performance. Reliable and efficient, each unit features heavy gauge, 3/16" steel receivers for long operating life.**

In addition, 3450 RPM motors assure maximum efficiency while maintaining minimum motor horsepower. Available in a wide range of sizes, these U.S. made pumps have just the right accessories and options to meet your unique needs. What's more, a nationwide network of stocking distributors means fast, easy, year-round access to pumps and replacement parts.

### Features

#### Standard Features

- Heavy gauge steel receivers
- Simplex or duplex construction
- Bronze fitted centrifugal pumps
- Energy efficient 3450 RPM motors
- "Sterl-Seal" ceramic pump seal (250°F)
- Heavy-duty make-up water valve
- Isolation valves
- Gauge Glass
- Wide range of options and accessories

#### Optional Features

- Stainless steel receivers
- Electric alternator for duplex units
- Thermometer
- Solenoid operated make-up water valve with reverse acting float switch
- McDonnell-Miller #21 make-up water valve
- Special motor construction such as totally enclosed, washdown duty and explosion proof is available
- 1750 RPM motors, larger pumping capacities and higher discharge pressures - consult factory
- Custom sized tanks available
- Complete NEMA 12 Control Panel

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## Product Features

### Receiver:

Heavy gauge steel construction. Sizes ranging from 125 gallons up to 714 gallons. Narrow diameter, up to 250 gallons fit through standard door openings.

### Motors:

Heavy-duty, ballbearing, close-coupled pump motors with stainless steel shaft. 3450 RPM for greater efficiency and more economical operation.

### Make-up Water Valve:

Mechanical, plug mounted valve with stainless steel float. Rated up to 45 PSI inlet water pressure. At pressures exceeding 45 PSI, a PRV is required on the inlet cold water line.

### Operation:

Boiler feed pump(s) are controlled by a water level controller mounted on the boiler. If condensate is lost or delayed in the system, it is automatically replaced in the receiver through the make-up water valve.

### "SterlSeal" Pump Seal (A):

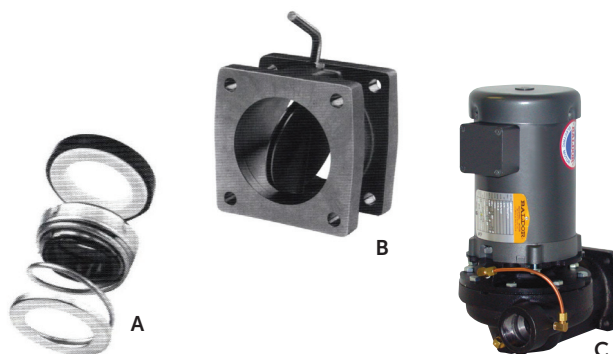
Features the ultimate in ceramic technology for exceptionally long life. Because the seal runs on the bronze impeller hub, the motor shaft is literally outside the pump. Consequently, the shaft is not exposed to corrosion by condensate. Rated for temperatures up to 250°F.

### Isolation Valve (B):

Standard on 5000-JF Series. Allows removal of pump without draining the tank.

### Centrifugal Pump (C):

Offers a wide range of pressures and GPM. Unique design features provide for ease of servicing.



## Control Panel

### Complete NEMA 12 Control Panel (Optional)

- Motor Circuit Protector
- HOA Selector Switch
- External Reset
- Control Circuit Transformer
- Pilot Light (pump running)
- Removable Mounting Plate and Terminal Strip in a Single NEMA 12 Enclosure
- Mounted and Wired with Single Point Power Connection.

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## Specifications

### 5000 Series Engineering and Capacity Data

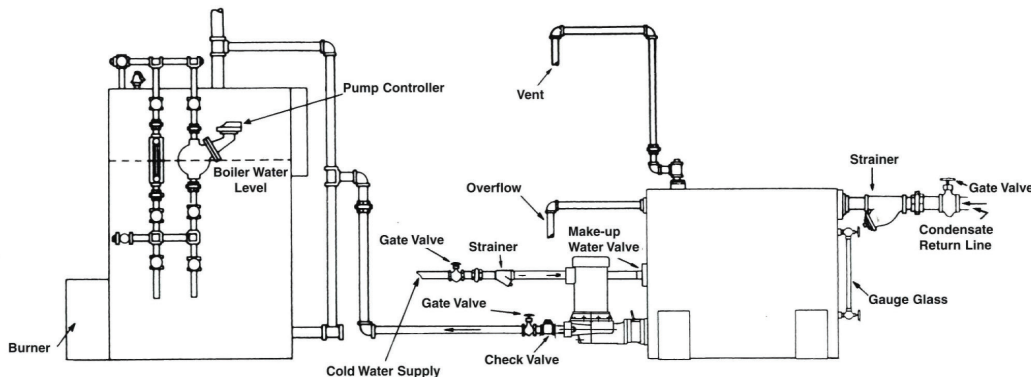
| Boiler HP | Discharge Pressure PSI | Pump Capacity, GPM | Motor HP | Rec. Capacity, Gallons | Unit Model Number |            | Shipping Weight, lbs. |        |
|-----------|------------------------|--------------------|----------|------------------------|-------------------|------------|-----------------------|--------|
|           |                        |                    |          |                        | Simplex           | Duplex     | Simplex               | Duplex |
| 150       | 20                     | 25                 | 3/4      | 125                    | 502150-JF         | 502150-JDF | 570                   | 665    |
|           | 30                     |                    | 1        |                        | 503150-JF         | 503150-JDF | 590                   | 685    |
|           | 40                     |                    | 1-1/2    |                        | 504150-JF         | 504150-JDF | 600                   | 695    |
|           | 50                     |                    | 2        |                        | 505150-JF         | 505150-JDF | 615                   | 710    |
| 200       | 20                     | 30                 | 3/4      | 146                    | 502200-JF         | 502200-JDF | 635                   | 690    |
|           | 30                     |                    | 1        |                        | 503200-JF         | 503200-JDF | 640                   | 730    |
|           | 40                     |                    | 1-1/2    |                        | 504200-JF         | 504200-JDF | 650                   | 750    |
|           | 50                     |                    | 2        |                        | 505200-JF         | 505200-JDF | 670                   | 770    |
| 250       | 20                     | 35                 | 3/4      | 175                    | 502250-JF         | 502250-JDF | 800                   | 870    |
|           | 30                     |                    | 1        |                        | 503250-JF         | 503250-JDF | 805                   | 875    |
|           | 40                     |                    | 1-1/2    |                        | 504250-JF         | 504250-JDF | 815                   | 885    |
|           | 50                     |                    | 2        |                        | 505250-JF         | 505250-JDF | 840                   | 910    |
| 300       | 20                     | 45                 | 1        | 210                    | 502300-JF         | 502300-JDF | 830                   | 920    |
|           | 30                     |                    | 1-1/2    |                        | 503300-JF         | 503300-JDF | 835                   | 930    |
|           | 40                     |                    | 1-1/2    |                        | 504300-JF         | 504300-JDF | 840                   | 940    |
|           | 50                     |                    | 2        |                        | 505300-JF         | 505300-JDF | 860                   | 980    |
| 400       | 20                     | 55                 | 1-1/2    | 250                    | 502400-JF         | 502400-JDF | 900                   | 995    |
|           | 30                     |                    | 1-1/2    |                        | 503400-JF         | 503400-JDF | 905                   | 1005   |
|           | 40                     |                    | 2        |                        | 504400-JF         | 504400-JDF | 920                   | 1020   |
|           | 50                     |                    | 5        |                        | 505400-JF         | 505400-JDF | 930                   | 1030   |
| 500       | 20                     | 70                 | 2        | 326                    | 502500-JF         | 502500-JDF | 975                   | 1070   |
|           | 30                     |                    | 2        |                        | 503500-JF         | 503500-JDF | 980                   | 1075   |
|           | 40                     |                    | 3        |                        | 504500-JF         | 504500-JDF | 990                   | 1085   |
|           | 50                     |                    | 5        |                        | 505500-JF         | 505500-JDF | 1045                  | 1140   |
| 600       | 20                     | 85                 | 2        | 395                    | 502600-JF         | 502600-JDF | 1070                  | 1170   |
|           | 30                     |                    | 3        |                        | 503600-JF         | 503600-JDF | 1070                  | 1170   |
|           | 40                     |                    | 3        |                        | 504600-JF         | 504600-JDF | 1090                  | 1190   |
|           | 50                     |                    | 5        |                        | 505600-JF         | 505600-JDF | 1090                  | 1190   |
| 700       | 20                     | 100                | 2        | 470                    | 502700-JF         | 502700-JDF | 1235                  | 1335   |
|           | 30                     |                    | 5        |                        | 503700-JF         | 503700-JDF | 1245                  | 1345   |
|           | 40                     |                    | 5        |                        | 504700-JF         | 504700-JDF | 1245                  | 1345   |
|           | 50                     |                    | 5        |                        | 505700-JF         | 505700-JDF | 1295                  | 1395   |

### Sample Specification

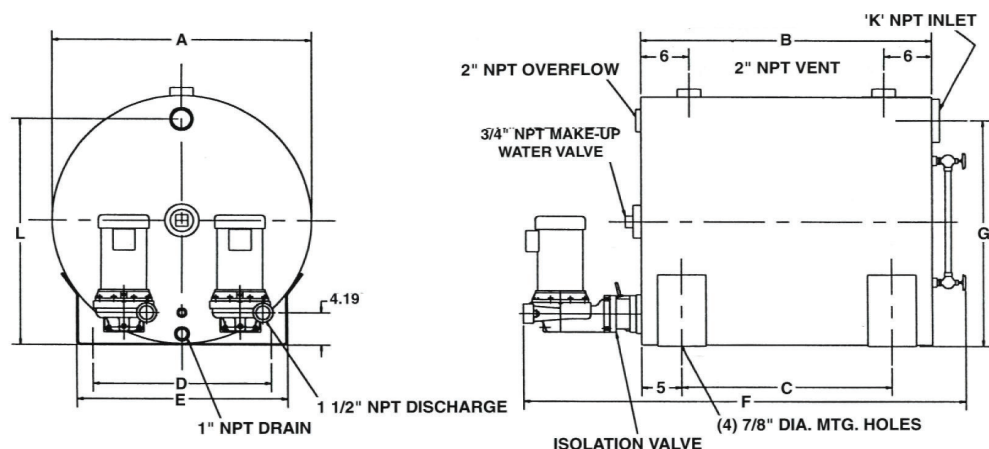
Furnish and install, where indicated on plans, a Sterling 5000 Series (simplex, duplex, triplex...) boiler feed unit(s). Each pump shall deliver \_\_\_\_\_GPM at a discharge pressure of \_\_\_\_\_ PSI. The unit(s) shall be factory assembled and tested by the pump manufacturer and shall include a receiver, pump(s), make-up water valve, gauge glass, isolation valve(s) and accessories. The receiver shall have a capacity of \_\_\_\_\_ gallons and be of minimum 3/16" steel construction. Pump(s) shall be of the centrifugal type with two-piece enclosed brass impeller, cast iron housing, high temperature (250°F) mechanical seal and stainless steel motor shaft. The make-up water valve is to be a mechanical plug-type with a stainless steel float. A flat perforated brass strainer shall be provided at the inlet to the pump from the tank. The motor(s) shall be vertical, 3450 RPM, \_\_\_\_\_phase, \_\_\_\_\_volt, 60 cycle, \_\_\_\_\_H.P.

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## Product Diagrams



| Gallon | A  | B  | C  | D  | E  | F     | G     | K | L     |
|--------|----|----|----|----|----|-------|-------|---|-------|
| 125    | 32 | 36 | 26 | 22 | 26 | 54.88 | 29.19 | 3 | 29.19 |
| 146    | 32 | 42 | 32 | 22 | 26 | 60.88 | 29.19 | 3 | 29.19 |
| 175    | 32 | 50 | 40 | 22 | 26 | 68.88 | 29.19 | 3 | 29.19 |
| 210    | 32 | 60 | 50 | 22 | 26 | 78.88 | 29.19 | 3 | 29.19 |
| 250    | 32 | 72 | 62 | 22 | 26 | 90.88 | 29.19 | 3 | 29.19 |
| 326    | 44 | 50 | 40 | 34 | 38 | 68.88 | 40.69 | 4 | 41.19 |
| 395    | 44 | 60 | 50 | 34 | 38 | 78.88 | 40.69 | 4 | 41.19 |
| 470    | 44 | 72 | 62 | 34 | 38 | 90.88 | 40.69 | 4 | 41.19 |
| 564    | 48 | 72 | 62 | 38 | 42 | 90.88 | 44.69 | 4 | 45.19 |
| 595    | 54 | 60 | 50 | 44 | 48 | 78.88 | 50.69 | 4 | 51.19 |
| 714    | 54 | 72 | 62 | 44 | 48 | 90.88 | 49.69 | 6 | 51.19 |

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