

SM-5000 SERIES

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Technical Specifications

Sellers SM-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 units have just the right accessories and options to meet your unique needs.



Features

Standard Features

- Heavy gauge steel receivers
- Duplex construction with isolation valves
- Solenoid make-up water valve with bypass
- Gauge glass
- Temperature Gauge
- Low Water Cut Off
- NEMA 12 Control Panel
- Bronze fitted centrifugal pumps
- Energy efficient 3450 RPM motors
- Automatic venting
- Ceramic pump seal (250°F)
- 30 gallons up to 714 gallon
- Narrow diameter, up to 250 gallons fit through standard door openings

Optional Features

- 165 PSI discharge pressure
- Triplex pumps
- Heating sparge tube with control valve
- Special motor construction, such as totally enclosed, washdown duty and explosion-proof is available
- Elevated tanks are available
- Complete NEMA 4 and 4X control panels
- Insulation and Jacket
- Discharge Piping
- Loading Valves

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Product Features



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 solenoid make-up water valve.

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):

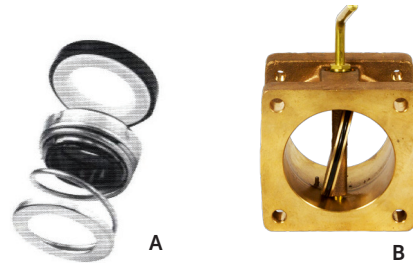
Standard on 5000-GF and JF Series. Allows removal of pump without draining the tank.

Receiver:

Heavy gauge steel construction. Sizes ranging from 30 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.



Control Panel



Inside view of control panel

Complete NEMA 12 Control Panel

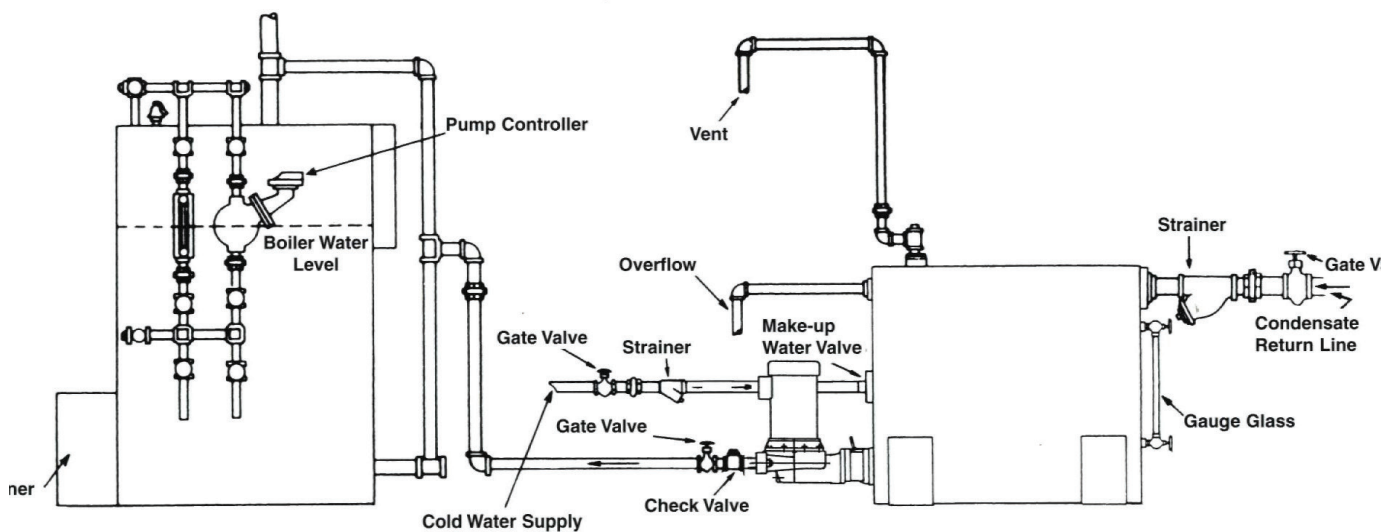
- Motor Circuit Protector
- HOA Selector Switch
- External Reset
- Control Circuit Transformer
- Pilot Light (pump running)
- Removable Mounting Plate and Terminal Strip in a Single NEMA 12 Enclosure
- Mounted and Wired with Single Point Power Connection.

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Specifications

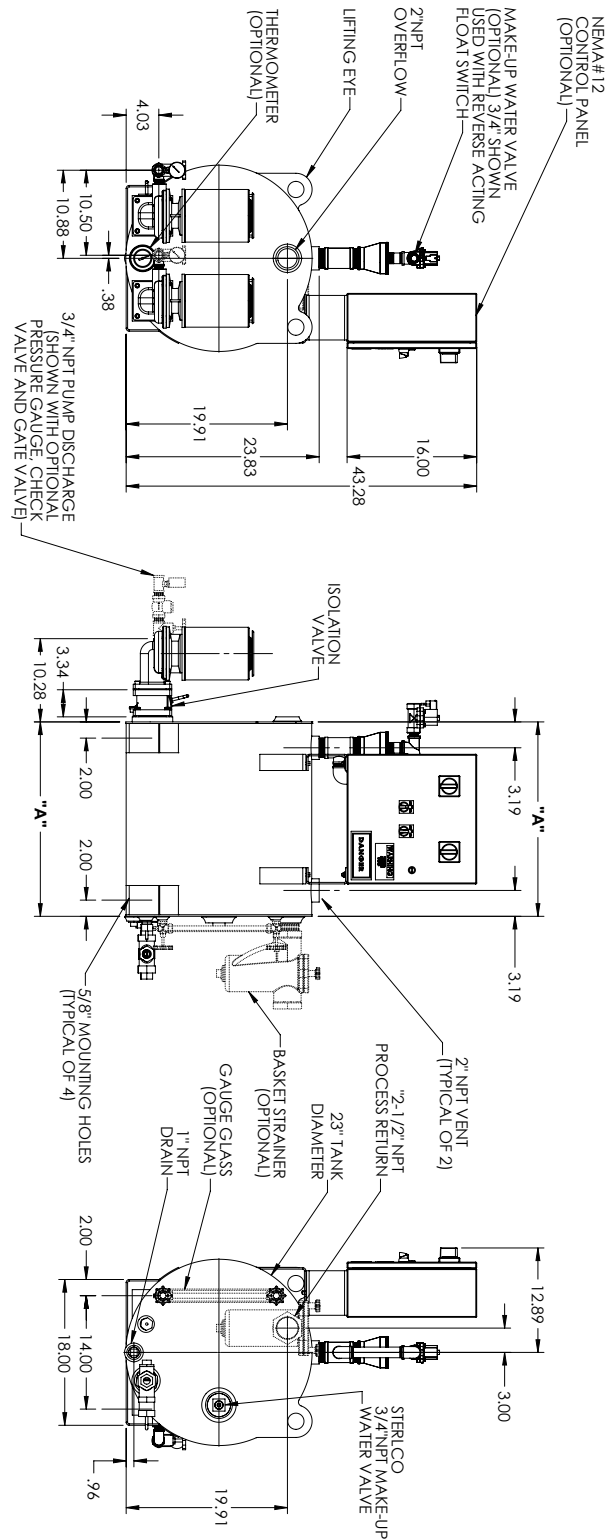
5000 Series Engineering and Capacity Data

Boiler HP	Discharge Pressure PSI	Pump Capacity, GPM	Motor HP	Rec. Capacity, Gallons	Unit Model Number		Shipping Weight, lbs.	
					Simplex	Duplex	Simplex	Duplex
150	40	25	1-1/2	125	504150-JF	504150-JDF	675	750
200	40	30	1-1/2	146	504200-JF	504200-JDF	710	785
250	40	35	1-1/2	175	504250-JF	504250-JDF	775	850
300	40	45	1-1/2	210	504300-JF	504300-JDF	830	920
400	40	55	2	250	504400-JF	504400-JDF	895	990
500	40	70	3	326	504500-JF	504500-JDF	955	1055
600	40	85	5	395	504600-JF	504600-JDF	1020	1120
700	40	100	5	470	504700-JF	504700-JDF	1120	1220



Product Diagrams

RECEIVER SIZE	A
30 GAL	24.00
45 GAL	30.00
60 GAL	36.00
95 GAL	60.00



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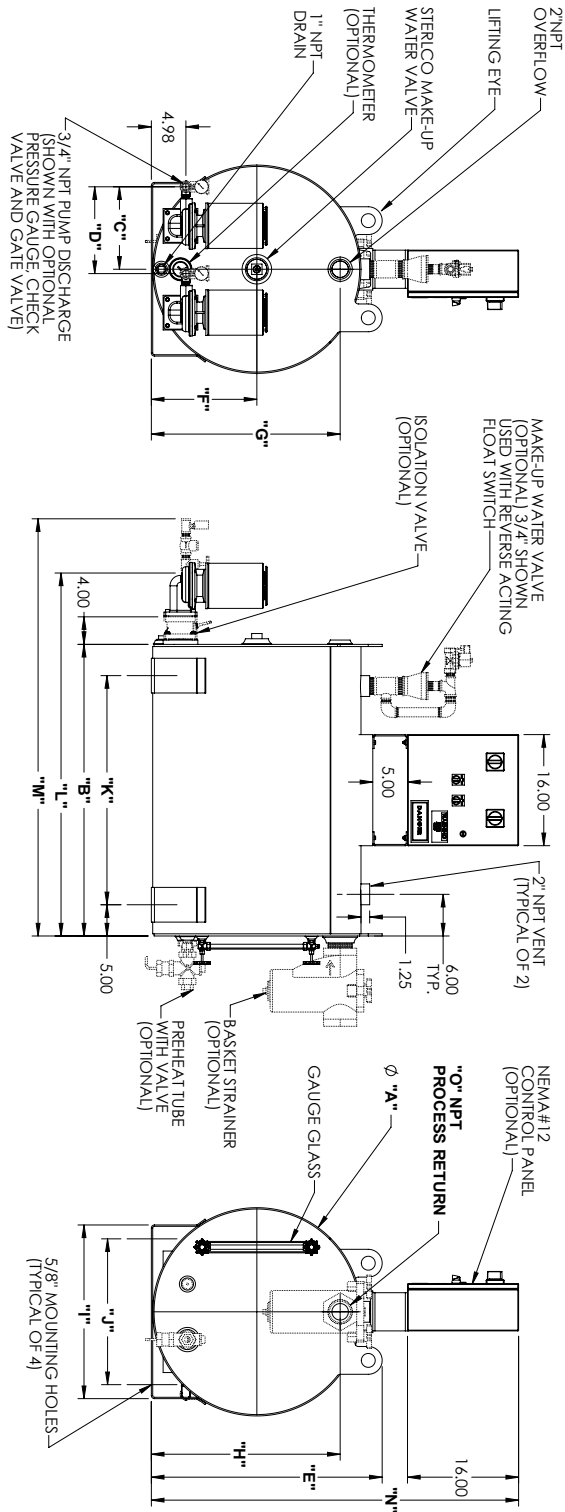
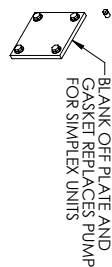
**SM-5000 "G" SERIES BOILER
FEED UNIT RECEIVER
MATERIAL: STEEL**

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RECEIVER SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
125 GAL	32.00	36.00	12.87	14.50	34.20	16.19	29.19	29.19	26.00	22.00	26.00	46.28	54.09	55.00	3"NPT
146 GAL	32.00	42.00	12.87	14.50	34.20	16.19	29.19	29.19	26.00	22.00	32.00	52.28	60.09	55.00	3"NPT
175 GAL	32.00	50.00	12.87	14.50	34.20	16.19	29.19	29.19	26.00	22.00	40.00	60.28	68.09	55.00	3"NPT
210 GAL	32.00	60.00	12.87	14.50	34.20	16.19	29.19	29.19	26.00	22.00	50.00	70.28	78.09	55.00	3"NPT
250 GAL	32.00	72.00	12.87	14.50	34.20	16.19	29.19	29.19	26.00	22.00	62.00	82.28	90.09	55.00	3"NPT
326 GAL	44.00	50.00	14.30	17.37	47.70	22.19	41.19	40.69	38.00	34.00	40.00	60.28	68.09	67.00	4"NPT
395 GAL	44.00	60.00	14.30	17.37	47.70	22.19	41.19	40.69	38.00	34.00	50.00	70.28	78.09	67.00	4"NPT
470 GAL	44.00	72.00	14.30	17.37	47.70	22.19	41.19	40.69	38.00	34.00	62.00	82.28	90.09	67.00	4"NPT
564 GAL	48.00	72.00	14.87	18.50	50.32	24.19	45.19	44.69	42.00	38.00	62.00	82.28	90.09	71.00	4"NPT
595 GAL	54.00	60.00	15.52	19.81	56.32	27.19	51.19	50.69	48.00	44.00	50.00	70.28	78.09	77.00	4"NPT
714 GAL	54.00	72.00	15.52	19.81	56.32	27.19	51.19	49.69	48.00	44.00	62.00	82.28	90.09	77.00	4"NPT

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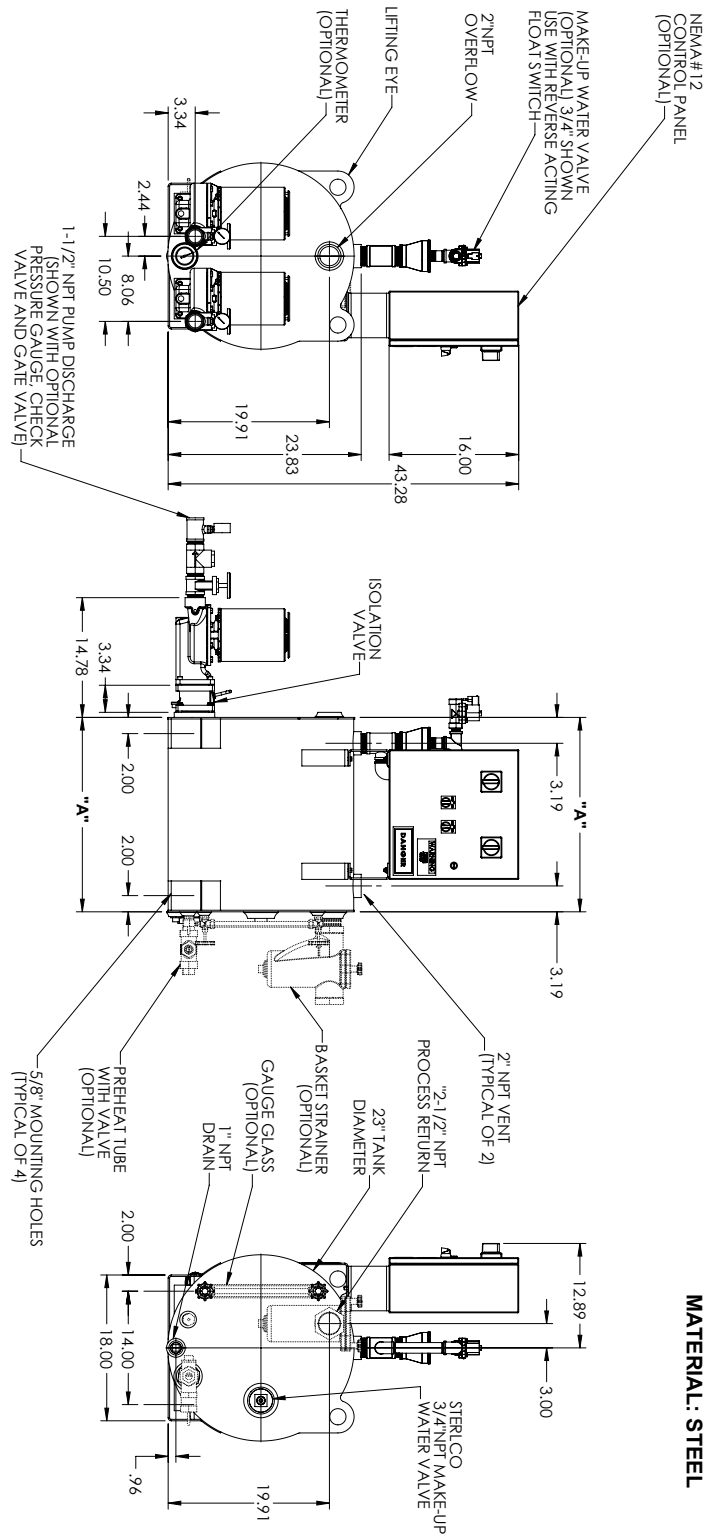
SM-5000 "G" SERIES BOILER
FEED UNIT RECEIVER
MATERIAL: STEEL



500SER.G.BF.125-714

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RECEIVER SIZE	A
30 GAL	24.00
45 GAL	30.00
60 GAL	36.00
95 GAL	60.00



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SM-5000 "J" SERIES BOILER
FEED UNIT RECEIVER
MATERIAL: STEEL

5000SER_LJB-F-30-95

⑧
BLANK OFF PLATE AND
GASKET REPLACES PUMP
FOR SIMPLEX UNITS

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**SM-5000 "J" SERIES BOILER
FEED UNIT RECEIVER
MATERIAL: STEEL**

