

11 Solid Reasons to Choose Hoffman Specialty

- Engineered Reliability
- NPT Inlet, Vent, and Overflow Receiver Openings
- Field tested performance. Thousands installed and operating economically and efficiently
- Close Coupled Pump Design
- Mechanical Seal Construction
- Bronze Fitted Centrifugal Pump
- Stainless Steel Motor Shaft
- Renewable Bronze Wearing Ring
- Quiet, Ball Bearing Motor with Dual Voltages
- 100% Factory Tested
- Available From Factory Stock or Local Stock



**50 VBF Simplex
Boiler Feed Unit**

Hoffman Specialty[®] VBF Stock Boiler Feed Units

FOR PRECISE WATER LEVEL CONTROL FOR MODERN STEAM BOILERS

Hoffman™ Series VBF™

THE Recognized Name in Boiler Feed Pumps

QUALITY FEATURES THAT MAKE HOFFMAN THE LEADER

Availability: Normally Factory or Local Stock

Corrosion Resistance: Heavy Gauge Steel Receiver
Receiver Mounting Feet
Inlet Baffle

Ease of Installation: Inlet, Vent and Overflow Openings
Gauge Glass

Ease of Service:

Vertical Pull-out Pumps
Carbon/Ceramic Mechanical Seals
Drain Connection
Flange Mounted Pumps

SERIES VBF STANDARD FEATURES TO COMPARE

Inlet
Low height, NPT Inlet for easy return line piping. Internally baffled to prevent corrosion.

Make-Up Valve
Float operated, internal water make-up valve to add water at low level. Level adjustment is standard.

Mounting Feet
To mount unit in place and to keep unit off floor thus preventing corrosion formation.

Drain Connection
NPT drain connection to allow removal of water when servicing.

Optional Features
Inlet Basket Strainers or "Y" Strainers.
Angle or Dial Thermometers.
Control Panels for wall mounting.

Vent & Overflow
Separate NPT connections to provide a secondary vent ensuring safe operation.

Vertical Receiver
To conserve floor space. Heavy gauge steel for corrosion prevention. Sized to hold approximately 10 minutes of boiler water needs. Has simplex, duplex or triplex pump openings.

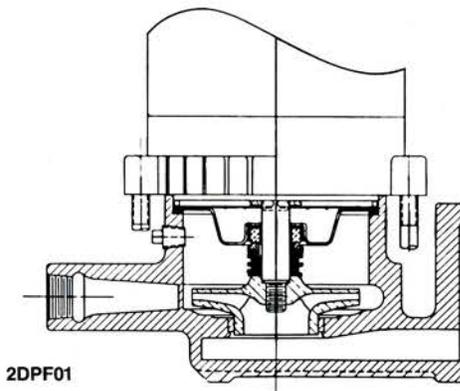
Water Level Gauge Glass
To indicate water level in receiver. Complete with protective brass rods and shut off valves.

Centrifugal Pumps
Built to handle high temperature 200°F condensate. Pumps use carbon/ceramic mechanical seals designed for 250°F temperatures for maximum life. See below.

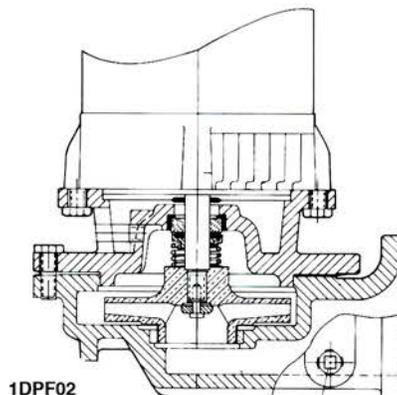
Hoffman™ Centrifugal Pumps

Hoffman centrifugal pumps are a close coupled, vertical design equipped with enclosed bronze impellers, renewable bronze wear rings, stainless steel shafts and carbon/ceramic mechanical seals. Each pump is individually tested prior to factory ship-

ment. All pump internals can be fully serviced without disturbing the discharge piping. Motors are quiet, ball bearing type with a dual voltage rating and thermal overload protection.



Close Coupled Centrifugal Pump for 30, 50 & 100 VBF Units



Close Coupled Centrifugal Pump for 200VBF Units

Series VBF Selection Chart

Select Unit According to Boiler HP **Ordering Instructions:** Specify Single (1 Pump), Duplex (2 Pumps), and Unit Model No.

Model No. & (No. of Pumps)	SYSTEM RATING				UNIT RATING			DESCRIPTION					
	Boiler HP	GPM	Lbs./Hr.	Sq. Ft. E.D.R.	Pump GPM	Disch. PSI	Motor HP	Receiver Cap. in Gallons		Min. Storage	Inlet Size, Inches	Disch. Size, Inches	Inlet Height Inches
								Total	Storage				
30 VBF (1) or (2)	10 to 30	2.1	1035	4,200	9	22	1/3	30	18	9	2	3/4	17 3/4
50 VBF (1) or (2)	35 to 50	3.5	1725	7,000	15	20	1/3	50	39	11	2	3/4	27 3/4
100 VBF (1) or (2)	60 to 100	6.9	3400	13,800	15	20	1/3	100	83	11	2	3/4	33 3/4
200 VBF-20 (1) or (2)	125 to 200	13.8	6900	27,800	30	20	1/2	200	172	12	2	1 1/2	45 3/4
200 VBF-30 (1) or (2)	125 to 200	13.8	6900	27,800	30	30	1	200	172	12	2	1 1/2	45 3/4

All motors 1 phase, 60 cycle, 115/230 volt. 3500 RPM as standard. 3 phase motors available on special request.

Series VBF Specification

Furnish and install according to manufacturer's instructions the quantity of (single) or (duplex) boiler feed units as shown on the drawings. Each unit shall consist of (1) vertical steel receiver, (1), (2) or (3) pumps(s), make-up water valve and water level gauge.

The receiver shall be fabricated of black steel and shall be equipped with a float operated, adjustable make-up water valve.

The centrifugal water pump(s) shall be flange mounted on the receiver. The pump shall be of the close coupled vertical design, permanently aligned and bronze fitted, and shall be equipped with a closed bronze impeller, renewable bronze casing ring and mechanical shaft seal. Motor shaft shall be stainless steel. Each pump shall be close coupled to a drip proof motor. Motor voltage shall be single phase 115/230 volt.

The unit shall be factory tested as a complete unit. The pump manufacturer shall furnish installation/operation manuals.

Unit shall be a Domestic® Series VBF™ as manufactured by Bell & Gossett, a Xylem brand, Morton Grove, IL.

Capacity Schedule

Series VBF Boiler Feed Unit(s):

Catalog No.: _____ VBF

Capacity: _____ gpm @ _____ psig

Receiver: _____ Gallons

Motors: _____ Hp, 3500 RPM, ODP

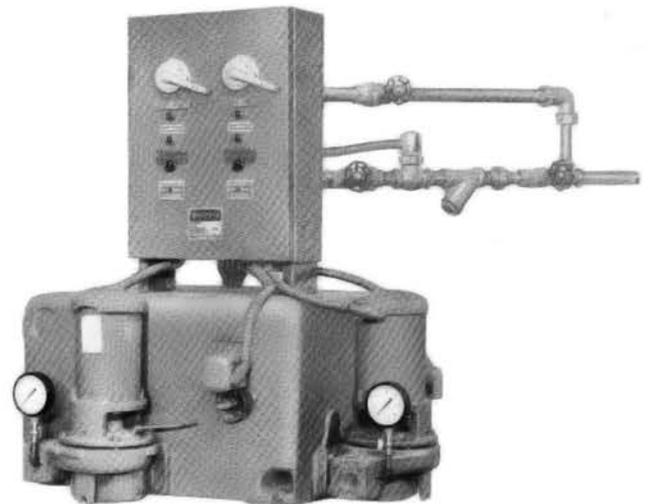
Electrical: Single Phase, 60 Hertz, Wire for 115 volts (Field convertible to 230V)

Other Boiler Feed Units

For other pump capacities, Domestic® offers a complete line of centrifugal pumps available for mounting on Series VBF receivers. These units are available on an engineered-to-order basis and incorporate all of the features used in Stock Series VBF units.

For greater durability, Domestic® offers Series CM™ Boiler Feed Units for systems up to 500 Boiler Horsepower. These units feature a cast iron receiver warranted for 20 years against failure due to corrosion.

Consult your Bell & Gossett Representative for information about these and other units.

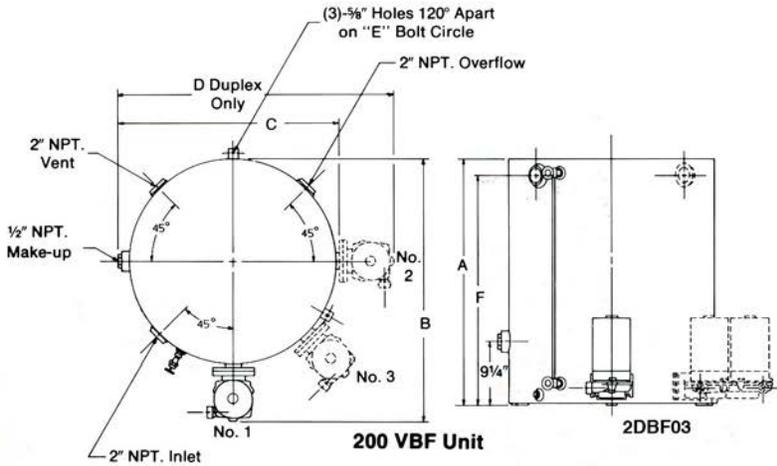
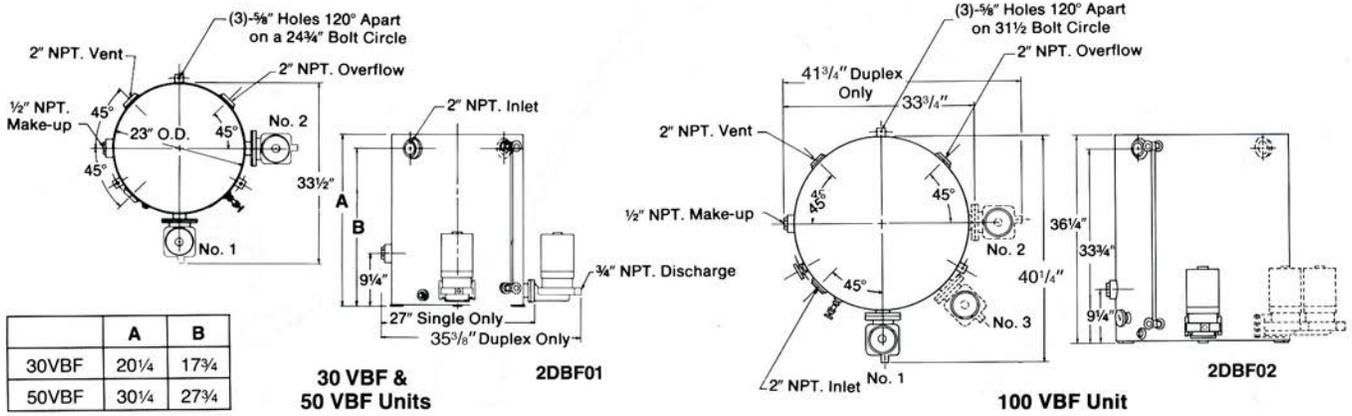


Domestic® Series HCM™ Unit with Cast Iron Receiver

(Multiple options shown)

Roughing – In Dimensions

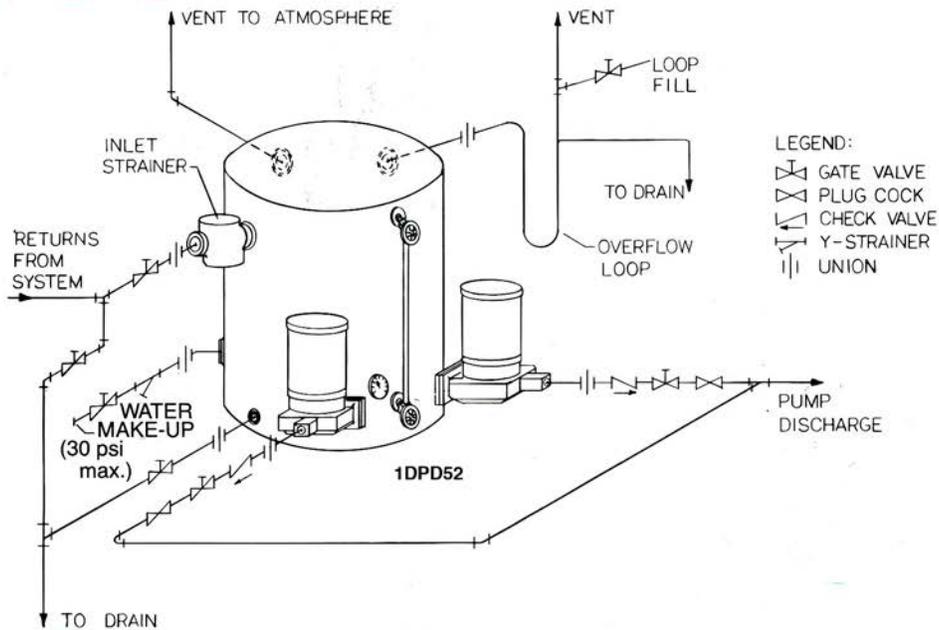
(All dimensions in inches)



Rough in Dimensions — not to be used for installation. All Dimensions in inches.

CATALOG NO.	200 VBF
Rec. Size	35 ¹ / ₂ x 48
Net Rec. Gal.	172
A	48 ¹ / ₂
B	46 ¹ / ₄
C	39 ¹ / ₂
D	47 ³ / ₄
E	37 ¹ / ₂
Inlet Height (F)	45 ³ / ₄

Elementary Piping Diagram



Xylem Inc.
 8200 N. Austin Avenue
 Morton Grove, Illinois 60053
 Phone: (847) 966-3700
 Fax: (847) 965-8379
 www.bellgossett.com