

BRYAN® STEAM

Horizontal Boiler Feed Systems Capacities to 500 Boiler HP for 15 through 250 PSI Boilers



Duplex model
HFS-15-50-50-D

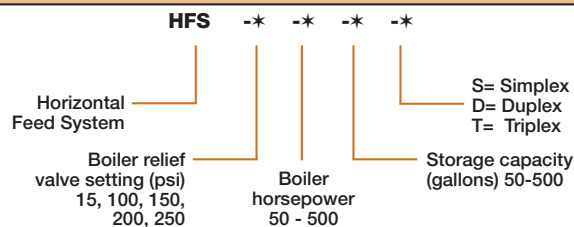
Quality Construction Features

- A. Heavy steel tank minimum 1/4" steel thickness
 - 4" Heavy duty stand with pump platform
 - Pumps mounted in front of the tank for ease of maintenance
- B. Available with single or multiple pump packages all with TEFC motors
- C. Provided with 3" minimum sized return and vent connections
- D. Unit includes water level gauge glass with brass shut-off valves and a tank thermometer
- E. Provided with float type make-up water valve – internally mounted
- F. Pump(s) are provided with discharge pressure gauge
- G. Unit includes NEMA #12 type enclosure with motor starter and H-O-A switch
- H. Versatile design with multiple options available

Performance Features

- Designed to feed 15 through 250 PSI design boilers
- Atmospheric tank design
- Tank sizes from 50 to 500 gallons capacity
- Handles 6 BHP to 500 BHP
- Easily maintained
- Completely factory packaged for ease of installation
- Package design based on (1) GPM of storage per boiler horse power
- Pump suction and discharge capacity are based on 4 feet/second velocity.

Model Designation

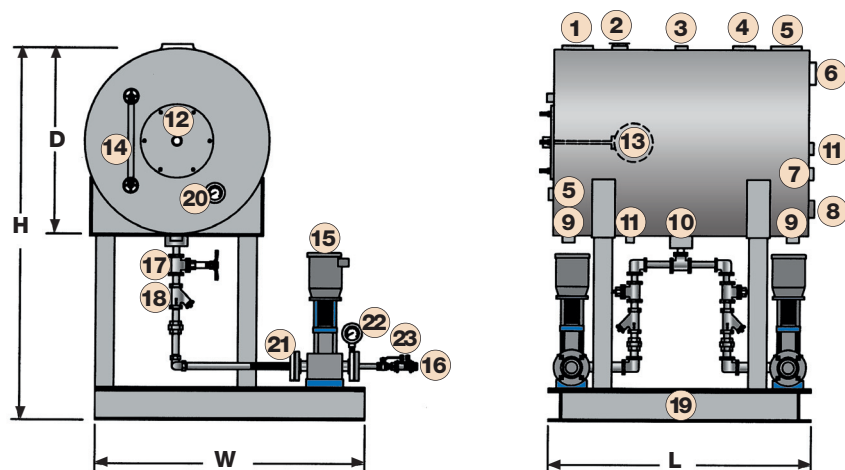


Bryan HFS Series Horizontal Boiler Feed Specifications

Feed System Model No.	Tank Capacity	Pump Capacity	Approximate Shipping Weight		
			Simplex Unit	Duplex Unit	Triplex Unit
HFS-XXX-50-50	50 gal.	6.9 gpm	650 lbs.	820 lbs.	990 lbs.
HFS-XXX-100-100	100 gal.	13.8 gpm	890 lbs.	1,060 lbs.	1,230 lbs.
HFS-XXX-125-130	130 gal.	17.3 gpm	950 lbs.	1,150 lbs.	1,350 lbs.
HFS-XXX-150-175	175 gal.	20.70 gpm	1,200 lbs.	1,400 lbs.	1,600 lbs.
HFS-XXX-250-275	275 gal.	34.5 gpm	1,500 lbs.	1,720 lbs.	1,940 lbs.
HFS-XXX-350-375	375 gal.	48.3 gpm	1,850 lbs.	2,350 lbs.	2,850 lbs.
HFS-XXX-500-500	500 gal.	69.0 gpm	2,050 lbs.	2,650 lbs.	3,250 lbs.

Notes: 1) The XXX in the Model No. refers to boiler relief valve setting of either 15, 100, 150, 200 or 250 PSI.
2) All units can be supplied; Simplex (1) pump, Duplex (2) pumps or Triplex (3) pumps.
3) All pumps are multistage centrifugal stage type provided with TEFC motor. Standard voltage 460/3/60.

Bryan Horizontal Boiler Feed Systems



HFS Series Horizontal Boiler Feed Dimensions

Feed System Model No.	Dimensions in Inches (CM)				
	Tank Cap. Gal. (Liters)	Overall Length (L)	Overall Width (W)	Overall Height (H)	Tank Diameter (D)
HFS-XXX-50-50	50 (189)	34 (87)	35 (89)	52 (132)	24 (61)
HFS-XXX-100-100	100 (379)	55 (140)	35 (89)	63 (160)	24 (61)
HFS-XXX-125-130	130 (492)	34 (87)	48 (122)	69 (175)	36 (92)
HFS-XXX-150-175	175 (662)	43 (110)	48 (122)	69 (175)	36 (92)
HFS-XXX-250-275	275 (1041)	49 (125)	54 (138)	72 (183)	42 (107)
HFS-XXX-350-375	375 (1419)	65 (165)	54 (138)	72 (183)	42 (107)
HFS-XXX-500-500	500 (1893)	67 (171)	60 (153)	81 (206)	48 (122)

Note: Maximum feedwater temperature 180°F.

Equipment Identification

Item No.	Conn. Size	Item Description
1	3" NPT	Vent connection
2	No Trapping	Blowout Opening
3	1" NPT	Manual Fill Connection
4	2" NPT	Probe Connection
5	3" NPT	Cond. Return Conn.
6	2" NPT	Overflow Conn.
7	1" NPT	Stm. Valve Sense Port/ Ch. Feed/Mag. Anode
8	1-1/2" NPT	Stm. Preheater Conn.
9	***	Pump By-Pass Conn.
10	***	Pump Suction Conn.
11	1/2" NPT	Drain Connection
		Water Make-Up Conn.
12	1" NPT 1-1/4" NPT	50 to 175 Gallon Tank 275 to 500 Gallon Tank
13		Make-Up Float Assbly.
14		Wtr. Level Ga. Glass w/Shut-Off Valves
15		Boiler Feed Pump
16	***	Pump Discharge Conn.
17	***	Suction Line Gate Valve
18	***	Suction Line Strainer
19	***	Structural Steel Base
20	1/2" NPT	3 Thermometer
21	***	Flexible Pump Conn.
22	***	Discharge Pres. Gauge
23	***	Discharge Throttling Valve

Notes: *** = Sizing depends on pump selected

• Standard Equipment –

Tank, base, pump, NEMA #12 IEC enclosed motor starter w/overloads and Hand-Off-Auto switch, pump suction and discharge piping, gate valve, strainer, flexible connector, throttling valve, pressure gauge, thermometer, make-up water valve, gauge glass w/gauge cocks.

• Optional Equipment

• Silver Trim Equipment Package

All of the above listed equipment along with U.L. listed NEMA #12 control panel with fused control circuit transformer, IEC motor starter with overloads, Hand-Off-Auto switch, pump disconnect switch, LPJ fusing, and pump "On" light for each pump

- Larger capacity storage tank
- Steam pre-heater assembly – complete with combination pressure/temperature valve, stainless sparge tube, "Y" type strainer and a gate valve
- Apexior tank lining
- Magnesium anode rod
- Stainless steel chemical feed quill
- Pump by-pass orifice kit
- Insulated jacket

• Complete Pump Information

- Complete pump information found on Form 2385 – Grundfos or Form 2386 – ITT Goulds

Note: Bryan Steam is "pump neutral" and we are able to supply a variety of pump manufacturers. Our standard vendors are either Grundfos Pumps or ITT Goulds Pumps. We can supply other manufacturers on a project by project basis. Please consult your Bryan Steam representative for additional information.



Bryan Steam — Leaders Since 1916

783 N. Chili Ave., Peru, Indiana 46970

U.S.A. Phone: 765-473-6651 •

Internet: www.bryanboilers.com Fax: 765-473-3074 •

E-mail: inquiry@bryansteam.com

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