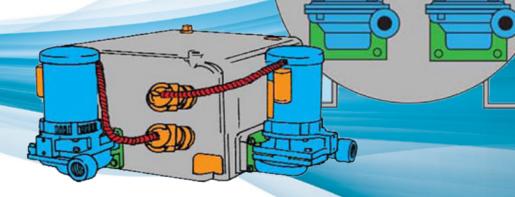


Boiler Feed Unit Systems

CVC Series

BCF Series

BCFE Series



Condensate & Boiler Feed Units

Series "CVC" - Condensate

"BFC" - Boiler Feed

"BFCE" - Elevated Boiler



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HISTORY

Flo Fab was established in 1981 by Denis Gauvreau who created and developed the products line and constantly being perfected by Marc Gauvreau, as well as by a team of professional engineers and designers. It's a combination of existing designs from several renowned products and the innovative ideas of a new generation professionals.

Through the years, Flo Fab has acquired several companies and service entities including: AQUA-PROFAB (ASME Tanks manufacturer), MÉNARD, LÉONARD ÉLECTRIQUE, PMA., Furthermore Flo Fab purchased equipment, fabrication designs and patterns from IDEALCO, a manufacturer of shell and tube type heat exchangers.

The after sales services, sales, engineering, R&D, production, quality control, accounting and administration departments of all the above companies share the same location.

In December 2014, Marc Gauvreau, son of the founder, acquired all shares of The company. Flo Fab and is constantly investing in new state of the art innovations new product like the XRI series and Prefab Skid for Hydronic Hearing 8 cooling system, pumping systems. This has allowed Flo Fab to retain competent and experienced staff of professionals with varied and specialized abilities that constantly work on improving our existing products and add new engineered solutions that exceeding customer's expectations .

Flo Fab has grown quite rapidly and now proudly offers of a wide range of products available directly from one manufacturer. This includes pumps & pump packages, tanks, heat exchangers & hydronic accessories. This allows each project stakeholders to enjoy economical savings, peace of mind, best value for their investment and optimized total cost of ownership.



BOILER FEED UNIT SERIES BFC & BFCE



The FLO FAB pumping systems described in this brochure are packaged units, completely assembled, wired and tested at the manufacturing plant. They are designed to provide maximum efficiency, reliability and easy maintenance in compact, space saving configurations.

Each unit is individually factory tested before shipment to assure that the product is ready for service when it is received. Testing includes verification of flow rate, pressure, amperage draw and cut-in/cut-out points of all components.

Technical assistance. Your FLO FAB representative has the expertise to assist you in selecting the pumping system most suitable for your application. He is backed by a team of engineers and application specialists who can develop the most efficient, energy saving pumping system for your specific requirements.

Series BFC and BFCE boiler feed pumps are used to pump and precisely control the condensate and make-up water required by the boiler(s) in low pressure steam applications. Pumping action is controlled by the fluid level in the boiler. They consist of a welded steel storage receiver equipped with make-up valve and one or more centrifugal pump(s) which are closed-coupled to an electric motor.

Boiler Feed Or Make-Up Pumps Standard Equipement

- 1) Float operated make up valve.
- 2) Gauge glass and thermometer
- 3) Suction isolation Butterfly valve(s) (on BFCE units only)
- 4) Inlet strainer(s) "Y" (on BFCE units only)
- 5) Metal flexible (on BFCE units only)

Discharge check valves Discharge gate valves

Discharge butterfly valves

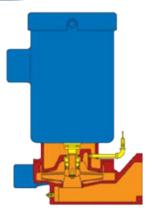
Optional Equipement

Control panels Make-up feeders - external type, or reverse acting float switch and solenoid valve type Solenoid operated make-up valve with float switch Magnesium corrosion inhibitor Three valve bypass and inlet strainer assembly Feedwater preheaters (Steam Injectors) Discharge pressure gauges

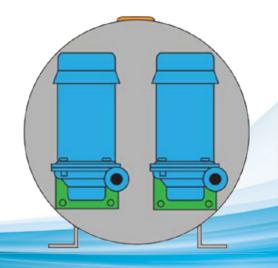
> **DUPLEX (D-BFCE) ELEVATED BOILER FEED UNIT**



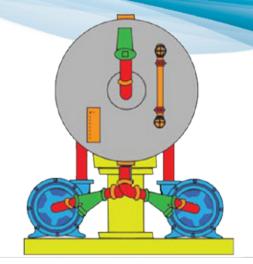




CENTRIFUGAL PUMP SERIES GV



DUPLEX (D-BFC) BOILER FEED UNIT



DUPLEX (D-BFCE)
ELEVATED BOILER FEED UNIT

FLO FAB CENTRIFUGAL PUMP SERIES GV

Vertically flange mounted centrifugal pumps are of bronze fitted construction with mechanical shaft seal for temperatures up to 250oF (up to 300oF also available). The pump is directly bolted to the receiver tank to provide a compact, efficient design. Seal area is automatically vented and flushed to the receiver to assure adequate lubrication at all times. Back pull-out design allows servicing without disturbing the piping. Bronze enclosed impellers are precision balanced for smooth, quiet operation. Each unit is factory assembled and tested prior to shipping.

RECEIVER TANK

Rugged steel or cast iron receivers for life-time service under the most severe conditions.Low return inlet to provide adequate drainage of radiators with low elevation. Available in 50, 70, 120, 210, 300 gallons sizes. Larger sizes are also available. Condensate receiver tanks are designed for gravity return systems only, and are not to be pressurized. Tank must be vented to atmosphere to prevent pressure build-up in the tank. Vent size shall beat least 11/4» diameter.

CONTROLS

Simplex (S-BFC or S-BFCE) systems are equipped with a heavy duty adjustable float switch and a stainless steel float and rod. Duplex (D-BFC or D-BFCE) systems are equipped with an electrical alternator for alternating the pumps and to start the second pump if the first one fails or when flow rate exceeds capability of one pump. For boiler feed service the float switch, which is set to close contacts at low level, operates a water make-up valve. Both float switches are two pole devices with double break contacts. Control panel and magnetic starter also available.

MOTORS

Drip proof or TEFC NEMA standard 3450 RPM motors have dual ball bearings and

threaded stainless steel shaft. All single phase motors have built-in thermal overload protection. All three phase motors must be installed with a magnetic starter which provides full overload protection. Failure to use proper starter and overload protectors will void warranty. Single phase motors thru 2Hp are 115 V or 230 V 60Hz (50 cycles also available) and 3Hp or more are 230 V only. Three phase motors are 230 V, 460 V or 575 V 60Hz (50 cycles also available).



Boiler Feed Unit

Series BFC

FLO FAB Series BFC boiler feed units are used to pump condensate and make-up water directly into the boiler(s). Pumping action is determined by a boiler mounted control which senses boiler water level requirements. Each boiler feed unit is

equipped with a heavy duty make-up valve actuated by the position of its seamless float within the receiver. The mechanism is readily adjustable for various water levels. It is mounted on the end of the receiver and can be easily removed as a complete unit.

Simplex (S-BFC) or duplex (D-BFC) units are available with cylindrical welded steel receivers in 50, 70, 120, 210, 300 gallon capacities. Simplex (S-BFC) units are also available mounted on duplex receivers to provide the option for conversion to a duplex (D-BFC) unit at a future requirement. Standard equipment also includes a water level gauge glass and a stem thermometer. When ordering, specify model number and required voltage.

NOTE: Larger units available on request.

	Receiver Size	Unit Type	В	С	D	E	F	G	Н	i i	j	K	L
	50	S-BFC	49"	22"	22"	37"	33"	18"	21"	2"	2"	4"	7 3/16"
	Gallons	D-BFC	1244.6 mm	558.8 mm	558.8 mm	939.8 mm	838.2 mm	457.2 mm	533.4 mm	50.8 mm	50.8 mm	101.6 mm	182.9 mm
ſ	70	S-BFC	47"	24"	24"	37"	31"	22"	25"	2"	2"	4"	6 ⁷ /s"
	Gallons	D-BFC	1193.8 mm	609.6 mm	609.6 mm	939.8 mm	787.4 mm	558.8 mm	635 mm	50.8 mm	50.8 mm	101.6 mm	172.7 mm
Ī	120	S-BFC	56"	28"	28"	46"	40"	26"	29"	21/2"	21/2"	4"	63/8"
	Gallons	D-BFC	1422.4 mm	711.2 mm	711.2 mm	1168.4 mm	1016 mm	660.4 mm	736.6 mm	63.5 mm	63.5 mm	101.6 mm	162.6 mm
Ī	210	S-BFC	81"	30"	30"	71"	65"	28"	31"	21/2"	21/2"	4"	6³/ ₈ "
Ì	Gallons	D-BFC	2057.4 mm	762 mm	762 mm	1803.4 mm	1651 mm	711.2 mm	787.4 mm	63.5 mm	63.5 mm	101.6 mm	
ľ	300	S-BFC	82"	36"	36"	72"	60"	32"	39"	3"	3"	6"	6³/ ₈ "
ļ	Gallons	D-BFC	2082.8 mm	914.4 mm	914.4 mm	1828.8 mm	1524 mm	812.8 mm	990.6 mm	76.2 mm	76.2 mm	152.4 mm	
	A Discharge A Discharge D D D D D D D D D												

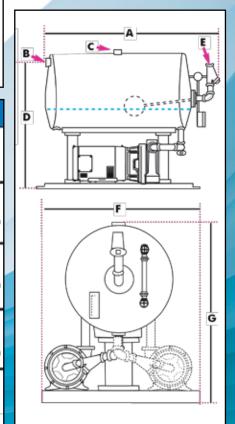
Dimensions not to be used for construction unless prints is certified by factory.

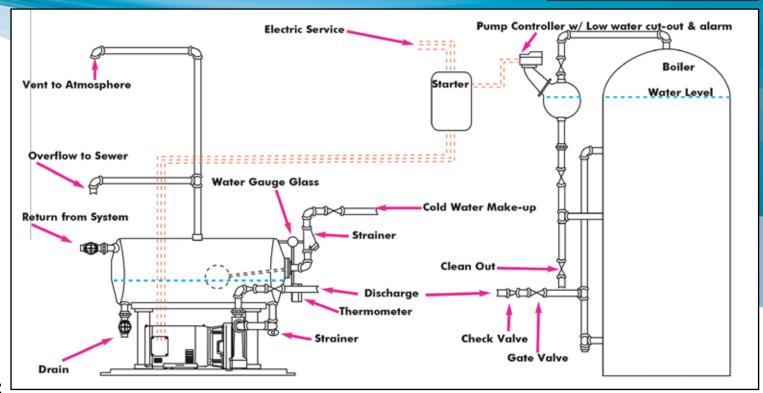


• Elevated Boiler Feed Unit Series BFCE

All the same features as the regular boiler feed units series BFC. The BFCE also includes suction isolation butterfly valve(s), inlet «Y» strainer(s) and metal flexible(s) at pump inlet(s). The elevated boiler feed units series BFCE may be an option for small space location that requires special installation. The pump(s) and motor(s) are installed beside or under the tank instead of at the end(s) for a more compact, shorter design.

_				_					
	Receiver Size	Unit Type	А	В	С	D	E	F	G
	50	S-BFCE	44"	2"	2"	45"	3/4"	36"	50"
	Gallons	D-BFCE	1117.6 mm	50.8 mm	50.8 mm	1143 mm	19.05 mm	914.4 mm	1270 mm
	70	S-BFCE	44"	2"	2"	47"	3/4"	36"	52"
	Gallons	D-BFCE	1117.6 mm	50.8 mm	50.8 mm	1193.8 mm	19.05 mm	914.4 mm	1320.8 mm
	120	S-BFCE	53"	21/2"	21/2"	50"	3/4#	36"	56"
	Gallons	D-BFCE	1346.2 mm	63.5 mm	63.5 mm	1270 mm	19.05 mm	914.4 mm	1422.4 mm
	210	S-BFCE	78"	21/2"	21/2"	52"	3/4"	36"	58"
	Gallons	D-BFCE	1981.2 mm	63.5 mm	63.5 mm	1320.8 mm	19.05 mm	914.4 mm	1473.2 mm
	300	S-BFC	79"	3"	3"	66"	3/4"	42"	72"
	Gallons	D-BFC	2006.6 mm	76.2 mm	76.2 mm	1676.4 mm	19.05 mm	1066.8 mm	1828.8 mm





Boiler Feed Unit Selection Tables (3450 RPM)

102111111111111111111111111111111111111	IDENTIFICATION:	Volts /	/HP /	/	Ηz
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* Using Closed Coupled Series GV6 or Series 1000 pumps

MODEL SPECIFICATIONS EX: D-CVC - 1010 - 15							
S = SIMPLEX D = DUPLEX UNIT TYPE	RECEIVER SIZES						
CVC = CONDENSATE BFC = BOILER FEED BFCE = ELEVATED BOILER FEED	EDR & PSI Ex: E.D.R=10,000 (10) PSI = 10						

ENGINEERING EQUIVALENTS

1,000 Sq. Ft. E.D.R. = 240,000BTU /HR.
1,000 Sq. Ft. E.D.R. = 247 LBS WATER EVAP. /HR.
1,000 Sq. Ft. E.D.R. = 1/2 GAL WATER EVAP /MIN.

1 Sq. Ft. E.D.R. = 240 BTU /Hr. (STEAM)

1 Sq. Ft. E.D.R. = $\frac{1}{4}$ LBS WATER EVAP. /HR.

1 BOILER HP = 33,475 BTU /HR. (STEAM)

1 Boiler Hp = 34.5 LBS WATER EVAP. /HR. (212°F)

1 BOILER HP =.069 GAL WATER EVAP. /MIN.

1 BOILER HP = 140 SQ. FT. E.D.R. (STEAM)

1 BOILER HP = 222 SQ. Ft. E.D.R. (WATER)

1 US GALLON = 231 Cu. INCHES

1 LBS = 2.31 Ft. of water

SERIES BF	C OR	BFCE 3450 RPM					
Unit Model Number	Boiler Hp E.D.R	Pump	Tank Capa.	Pump Disch		50 PM	
☐ Simplex ☐ Duplex	(sq. ft) BTUH (1000's)	USGPM	Gallons	Press. PSI	Motor Hp	Pump Motor Models	
BFC - 0210 BFC - 0215 BFC - 0220	Hp 14			10 15 20	1/ ₄ 1/ ₃ 1/ ₂	GV6 GV6 GV6	
BFC - 0230 BFC - 0240 BFC - 0250 BFC - 0255	EDR 2,000	3	3 15	15	30 40 50 55	1/ ₂ 3/ ₄ 1 1'/ ₂	GV6 GV6 GV6
BFC - 0270 BFC - 0280 BFC - 0290	BTUH 490			70 80 90			
BFC - 02100 BFC - 0410 BFC - 0415	Hp 29			100 10 15	1/4 1/3	GV6 GV6	
BFC - 0420 BFC - 0430 BFC - 0440 BFC - 0450	29 EDR 4,000	6	15	20 30 40 50	1/ ₃ 1/ ₂ 3/ ₄ 1	GV6 GV6 GV6	
BFC - 0455 BFC - 0470 BFC - 0480	втин			55 70 80	11/2	GV6 	
BFC - 0490 BFC - 04100 BFC - 0610 BFC - 0615		990 Hp 43 EDR 9	15	90 100 10 15	1/3 1/3	 GV6 GV6	
BFC - 0620 BFC - 0630 BFC - 0640	43 EDR			20 30 40	1/3 1/2 3/4	GV6 GV6 GV6	
BFC - 0650 BFC - 0655 BFC - 0670	6,000	,	13	50 55 70	1 11/2	GV6 GV6	
BFC - 0680 BFC - 0690 BFC - 06100	BTUH 1,480			90 100			
BFC - 0810 BFC - 0815 BFC - 0820	Hp 57			10 15 20	1/3 1/3 1/3	GV6 GV6 GV6	
BFC - 0830 BFC - 0840 BFC - 0850 BFC - 0855	EDR 8,000	12	15	30 40 50 55	3/ ₄ 1 1'/ ₂ 1'/ ₂	GV6 GV6 GV6	
BFC - 0870 BFC - 0880 BFC - 0890	BTUH 1,975			70 80 90			
BFC - 08100				100			

Dimensions not to be used for construction unless prints is certified by factory.

Boiler Feed Unit Selection Tables (3450 RPM)

DENTIFICATION:	Volts /	HP .	/Hz

* Using Closed Coupled Series GV6 or Series 1000 pumps

SERIES BFC OR BFCE 3450 RPM							SERIES BFC OR BFCE 3450 RPM										
Unit Model	Boiler Hp					50 PM	Unit Model	Boiler Hp				34 RF					
Number	E.D.R	Pump	Tank Capa.	Pump Disch			Number	E.D.R	Pump	Tank Capa.	Pump Disch	Kr	M				
□ Simpley	(sq. ft)	USGPM	Gallons	Press.	Motor	Pump	Simplex	(sq. ft)	USGPM	Gallons	Press.	Motor	Pump				
■ Simplex ■ Duplex	BTUH (1000's)			PSI	Нр	Motor Models		BTUH (1000's)			PSI	Нр	Motor Models				
BFC - 1010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10	1/3	GV6	BFC - 3010				10						
BFC - 1015	l u			15	1/3	GV6	BFC - 3015	Нр			15	1/2	GV6				
BFC - 1020	Hp 72			20	1/3	GV6	BFC - 3020	215			20	1/2	GV6				
BFC - 1030						30	3/4	GV6	BFC - 3030				30	1	GV6		
BFC - 1040	EDR	15	15	40	3/4	GV6	BFC - 3040	EDR	45	35	40	11/2	GV6				
BFC - 1050	10,000	۱ '	١ ، ١	50	11/2	GV6	BFC - 3050	30,000	75	05	50	2	GV6				
BFC - 1055				55	11/2	GV6	BFC - 3055				55	71/2	610A				
BFC - 1070	DTILL			70			BFC - 3070	DTILL			70	71/2	810A				
BFC - 1080	BTUH 2,470			80			BFC - 3080	8TUH 7,400			80	10	810A				
BFC - 1090	2,470			90			BFC - 3090	7,400			90	10	810A				
BFC - 10100				100			BFC - 30100				100	10	810A				
BFC - 1510				10	1/3	GV6	BFC - 4010				10						
BFC - 1515	Нр			15	1/3	GV6	BFC - 4015	Нр			15						
BFC - 1520	108			20	1/2	GV6	BFC - 4020	285			20	1	GV6				
BFC - 1530		22 ¹ / ₂	22 ¹ / ₂	22 ¹ / ₂		30	3/4	GV6	BFC - 4030			1	30	11/2	GV6		
BFC - 1540	EDR 15,000				22 ¹ / ₂	221/2 25	25	40	111	GV6	BFC - 4040	EDR	60	50	40	2	GV6
BFC - 1550								50	11/2	GV6	BFC - 4050	40,000			50	2	GV6
BFC - 1555							55	11/2	GV6	BFC - 4055	\vdash			55	71/2	610A	
BFC - 1570					70	71/2	810G	BFC - 4070	втин			70	71/2	810A			
BFC - 1580	BTUH					80	10	810G	BFC - 4080	9,880			80	10	810A		
BFC - 1590	3,600					90	20	1020A	BFC - 4090				90	10	810A		
BFC - 15100				100	25	1020A	BFC - 40100				100	15	810A				
BFC - 2010				10	1/3	GV6	BFC - 5010				10						
BFC - 2015	Ηр				15	1/3	GV6	BFC - 5015	Hp			15					
BFC - 2020	Нр 143			20	1/2	GV6	BFC - 5020	358			20						
BFC - 2030	_			30	3/4	GV6	BFC - 5030				30	3	615J				
BFC - 2040	EDR	30	25	40	1	GV6	BFC - 5040	EDR	75	70	40	5	610A				
BFC - 2050	20,000	"		50	11/2	GV6	BFC - 5050	50,000			50	5	610A				
BFC - 2055				55	2	GV6	BFC - 5055	\vdash			55	71/2	815G				
BFC - 2070	DTILL			70	71/2	810A	BFC - 5070	втин			70	71/2	810A				
BFC - 2080	BTUH 4,940			80	10	810A	BFC - 5080	12,000			80	10	810A				
BFC - 2090	4,740			90	10	810G	BFC - 5090	1.2,000			90	15	810A				
BFC - 20100				100	15	810G	BFC - 50100				100	15	810A				
BFC - 2510				10	1/3	GV6	BFC - 6510	-			10						
BFC - 2515	Hр			15	1/2	GV6	BFC - 6515	Нр			15						
BFC - 2520	Hp 179			20	1/2	GV6	BFC - 6520	450			20						
BFC - 2530		1		30	1	GV6	BFC - 6530				30	3	615A				
BFC - 2540	EDR	37'/2	35	40	11/2	GV6	BFC - 6540	EDR	971/2	70	40	5	615J				
BFC - 2550	25,000	1 ,,	"	50	2	GV6	BFC - 6550	65,000			50	71/2	615J				
BFC - 2555		1		55	2	GV6	BFC - 6555	03,000			55	71/2	815G				
BFC - 2570	втин			70	71/2	810A	BFC - 6570				70	10	810A				
BFC - 2580	6,170			80	71/2	810A	BFC - 6580	втин			80	10	810A				
BFC - 2590	0,170			90	10	810A	BFC - 6590	15,000			90	15	810A				
BFC - 25100			_	100	10	810A	BFC - 65100	,			100	15	810A				

Dimensions not to be used for construction unless prints is certified by factory.

SERIES BFC OR BFCE 1750 RPM

Pump

Tank

Pump

1750

RPM

Boiler

Hр

Unit

Model

Boiler Feed Unit Selection Tables (1750 RPM)

IDENTIFICATION:	VOLTS /	/HP	/Hz
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* Using Closed Coupled Series GV6 or Series 1000 pumps

SERIES ☐ BFC OR ☐ BFCE 3450 RPM

Unit Model Number	Boiler Hp E.D.R	Pump	Tank Capa.	Pump	34 RP	50 M	
■ Simplex ■ Duplex	(sq. ft) BTUH (1000's)	USGPM	Gallons	Disch Press. PSI	Motor Hp	Pump Motor Models	
BFC - 7510 BFC - 7515 BFC - 7520	Hp 538 EDR 75,000			10 15 20 30	 5	 615A	
BFC - 7530 BFC - 7540 BFC - 7550 BFC - 7555		112½	70	40 50 55	5 7½ 7½	615J 615J 810A	
BFC - 7570 BFC - 7580 BFC - 7590 BFC - 75100	BTUH 18,000			70 80 90 100	10 10 15	810A 810A 810A	
BFC - 10010 BFC - 10015 BFC - 10020	Hp 717			10 15 20	 	 	
BFC - 10030 BFC - 10040 BFC - 10050 BFC - 10055	EDR 100,000	150	120	30 40 50 55	5 7½ 7½ 10	620A 615A 615J 815G	
BFC - 10070 BFC - 10080 BFC - 10090 BFC - 100100	BTUH 24,700			70 80 90 100	10 15 15	815G 815G 815G 810A	

	Number	E.D.R		Capa.	Disch			
		(sq. ft) USGPM Gallons			Press.			
Г	Simplex	BTUH			PSI	Motor	Pump	
F	Duplex	(1000's)				Hp	Motor Model	
-		(1000 3)					moder	
Н	BFC - 0210	Нр			10	1/4	GV6	
Н	BFC - 0215	14			15	1/4	GV6	
Н	BFC - 0213		3	15	20	3	1020A	
Н	BFC - 0230	EDR	ľ	ا ۲۰ ا		5	1020A	
Н	BFC - 0230	2,000			30 40	71/2	1020A	
Н	BFC - 0250	втин			50	10	1215A	
Т	BFC - 0255	490			55	10	1215A	
Н	0.0 0200	470			22	-10	1215/1	
Н	BFC - 0410	Нр			10	1/4	GV6	
Т	BFC - 0415	29			15	1/3	GV6	
Н	BFC - 0420	EDR 4,000 BTUH 990	6	15	20	3	1020A	
Г	BFC - 0430		_		30	5	1020A	
Т	BFC - 0440				40	71/2	1020A	
	BFC - 0450				50	10	1215A	
	BFC - 0455				55	10	1215A	
		770						
	BFC - 0610	Hp			10	1/4	GV6	
	BFC - 0615	43	43		15	1/4	GV6	
	BFC - 0620	EDR	9	15	20	3	1020A	
	BFC - 0630	6,000			30	5	1020A	
	BFC - 0640	-			40	71/2	1020A	
	BFC - 0650	BTUH			50	10	1215A	
	BFC - 0655	1,480			55	10	1215A	
		U.,						
┖	BFC - 0810	Нр 57			10	1/4	GV6	
L	BFC - 0815	37			15	1/4	GV6	
L	BFC - 0820	EDR	12	15	20	3	1020A	
	BFC - 0830	8,000			30	5	1020A	
	BFC - 0840	-			40	71/2	1020A	
\vdash	BFC - 0850	BTUH			50	10	1215A	
	BFC - 0855	1,975			55	10	1215A	

Hp 72

EDR

10,000

BTUH

2,470

15

15

20

40

50

55

71/2

10

BFC - 1010

BFC - 1015

BFC - 1020

BFC - 1030

BFC - 1040

BFC - 1050

BFC - 1055

Dimensions not to be used for construction unless prints is certified by factory.

GV6

GV6

810A

1020A

1020A

1215A

1215A

Boiler Feed Unit Selection Tables (1750 RPM)

DENTIFICATION:	Volts /	Hp/	Hz
IDENTIFICATION:	AOLI2 /	mr/	П

* Using Closed Coupled Series GV6 or Series 1000 pumps

SERIES BF	C or \square	BFCE	1750	RPM	١		SERIES [BFC or	☐ BFCI	175	O RPN	1		
Unit Model	Boiler Hp	Pump	1750		Uni: Mod	Boil el H	er	Tank		1750 RPM				
Number	E.D.R (sq. ft)	USGPM	Capa.	Disch Press.	Motor	Pump	Num	(sq.	R	Capa.	Pump Disch Press.	Motor	Pump	
☐ Simplex ☐ Duplex	BTUH (1000's)			PSI	Нр	Motor Model	Simple Duple				PSI	Нр	Motor Model	
BFC - 1510	Нр 108			10	1/4	GV6	BFC - 501				10	3/4	615J	
BFC - 1515 BFC - 1520 BFC - 1530	EDR 221/2	25	15 20 30	1/ ₃ 11/ ₂	6V6 810A 810A	BFC - 501 BFC - 502 BFC - 503	0 ED	75	70	15 20 30	2	815G 810A 810A		
BFC - 1540 BFC - 1550	BTUH	15,000 BTUH		40 50	7½ 10	1020A 1215A	BFC - 504 BFC - 505	0 30,0	_		40 50	71/2	1020A 1215A	
BFC - 1555	3,600			55	10	1215A	BFC - 505	12,0			55	15	1215A	
BFC - 2010	Нр 143			10	1/4	GV6	BFC - 651	0 Hp			10	1	615A	
BFC - 2015 BFC - 2020	EDR	30	25	15 20	1/ ₃ 11/ ₂	GV6 810A	BFC - 651 BFC - 652	10 ED		70	15 20	1 ¹ / ₂	815G 815G	
BFC - 2030 BFC - 2040	20,000				30 40	71/2	810A 1020A	BFC - 653 BFC - 654	65,0	00		30 40	5 7½	1020A 1020A
BFC - 2050 BFC - 2055	8TUH 4,940			50 55	10 10	1215A 1215A	BFC - 655 BFC - 655 BFC - 657	5 15,0			50 55 70	10 15 20	1215A 1215A 1220A	
000 000	Нр		$\overline{}$		1/3	CVC				70				
BFC - 2510 BFC - 2515	Hp 179	3 7 ¹/₂	35	10 15	1	GV6 610A	BFC - 751	5 53	3		10 15	1 ¹ / ₂	620A 825A	
BFC - 2520 BFC - 2530 BFC - 2540	EDR 25,000	37 /2	33	20 30 40	1/ ₂ 2 71/ ₂	810A 810A 1020A	BFC - 752	75,0			20 30 40	5	1020A 1020A 1025A	
BFC - 2550 BFC - 2555	BTUH 6,170			50 55	10	1215A 1215A	BFC - 754 BFC - 755 BFC - 755	0 BTU			50	15 10 15	1215A 1215A	
U C 2333	-						BFC - 757		-		70	20	1220A	
BFC - 3010 BFC - 3015	Нр 215			10 15	1/2 3/4	615J 815G	BFC - 100		7		10 15	1 ¹ / ₂	620A 825A	
BFC - 3020 BFC - 3030	EDR 45	EDR 30,000 BTUH	35	35 20 1 ¹ / ₂ 810A BFC - 10020 EDR 30 2 810A BFC - 10030 100,000		120	20 30	3 5	825A 1020A					
BFC - 3040 BFC - 3050				40 50	5 10	1020A 1215A	BFC - 100	940 950 BTU	н		40 50	15 10	1025A 1215A	
BFC - 3055	7,400			55	10	1215A	BFC - 100		00		55 70	15 20	1215A 1220A	
BFC - 4010	Hp 285			10	3/4	615J								
BFC - 4015 BFC - 4020 BFC - 4030	EDR	60	50	15 20 30	1 2 5	810A 810A 1020A								
BFC - 4040 BFC - 4050	40,000 BTUH			40 50	71/2	1020A 1020A 1215A								

Dimensions not to be used for construction unless prints is certified by factory.

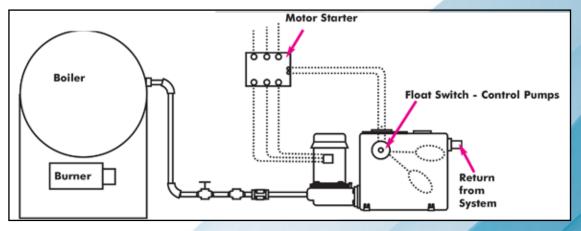
BFC - 4055

9,880



Condensate Return Unit Series CVC

The condensate pump is operated by a float switch in the condensate tank. As water is returned from the system, it is pumped to the boiler by the condensate pump.

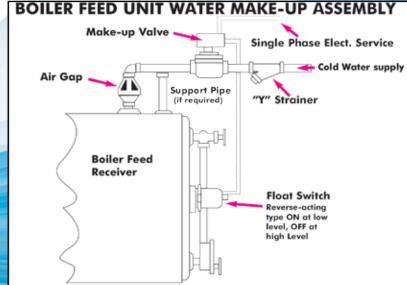


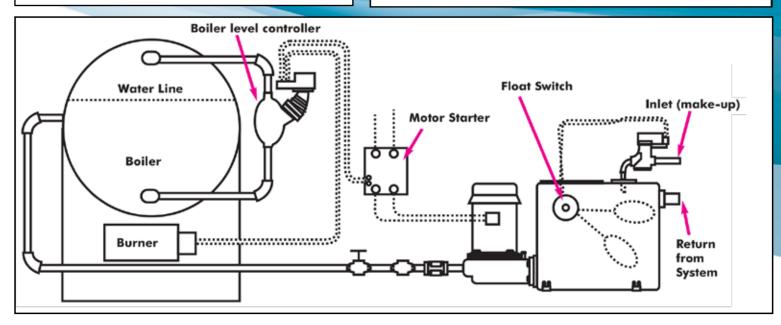
Boiler Feed Unit

Series BFC or BFCE

Circuit 1 - The boiler level controller operates the condensate pump feeding water to the boiler as required.

Circuit 2 - The float switch mounted in the condensate tank operates a valve adding water to the condensate tank as required.







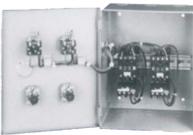


Control Panels

Series DCP & DCP-B



SERIES DCP



SERIES DCP CONTROL PANEL STANDARD

- 1) NEMA Type 1 only
- 2) 2 starters with 3rd leg overload protection.
- 3) Reset button in the cover.

OPTIONAL

3 position selector switch, hand-off auto, Lead-off lag,or test-off auto
Pilot light(s) 250 V max.
1 electric alternator per panel (duplex models only)



SERIES DCP-B

SERIES DCP-B CONTROL PANEL WITH CIRCUIT BREAKERS STANDARD

- 1) NEMA Type 1
- 2) 2 starters, each with 3rd leg overload protection and reset button on each starter
- 3) Number terminal strip

OPTIONAL

- NEMA Type, 2, 3, 4X, 7, 9 or 12 Consult Factory
- Fused or non-fused disconnect(s) with interlock with provisions for padlock.
- 1 fuse block per starter
- Fused control circuit transformer 110 volt secondary
- 1 electric alternator per panel (duplex models only)
- Relays number as required
- Selector switches on cover (1 per starter)
 - Labeled- Hand-off auto

Lead-off lag

Boiler #1 - off - Boiler #2

Pump #1 - off - Pump #2

Test-off auto (spring loaded to off)

- Pilot light(s) on cover (1 per starter)
- Alarm bell with silencing switch (1 per panel)
- External reset buttons for starters1 electric alternator per panel (duplex models only)



Typical Specifications

CONDENSATE RETURN UNITS SERIES // CVC S-CVC (SIMPLEX) D-CVC (DUPLEX)

The contractor shall furnish and install a FLO FAB automatic condensate unit. Pump(s) shall be mounted vertically and flanged to the receiver. Pump(s) shall be cast iron bronze fitted end suction centrifugal pumps with 250°F (300°F also available) mechanical seals close coupled to 115/230 Volts single or 208/460/575 Volts three phase 60 Hz, 3500 RPM, open drip-proof or totally enclosed electric motors. A vent line shall be furnished from each pump seal chamber to the receiver.

Receiver shall be 15, 25, 35, 45, 70 or 120 gallons 3/16" black steel or cast iron with 2" vent, 3/4" drain and (2" or 3") inlet.

Simplex (S-CVC) unit shall include a UQK-2 float switch assembly.

Duplex (D-CVC) unit shall include two UQK-2 float switch with electrical alternator assemblies. A stem thermometer and a gauge glass should be provided.

OPTIONAL: On duplex units, a NEMA 1 control panel with magnetic starter(s) should be installed (not included).

BOILER FEED UNITS SERIES // BFC S-BFC (SIMPLEX) D-BFC (DUPLEX)

The contractor shall furnish and install a FLO FAB automatic ground level boiler feed unit. Pump(s) shall be mounted vertically and flanged to the receiver. Pump(s) shall be cast iron bronze fitted end suction centrifugal pumps with 250°F (300°F also available) mechanical seals close coupled to 115/230 Volts single or 208/460/575 Volts three phase 60 Hz, 3500 RPM, open drip-proof or totally enclosed electric motors.

Receiver shall be 50, 70, 120, 210 or 300 gallons 1/4" black steel with 2" vent, 3/4" drain and (2" or 3") inlet. Simplex (S-BFC) and duplex (D-BFC) unit shall include make-up valve, vent, a stem thermometer and a gauge glass installed on the tank.

ELEVATED BOILER FEED UNITS SERIES // BFCE S-BFCE (SIMPLEX) D-BFCE (DUPLEX)

The contractor shall furnish and install a FLO FAB automatic elevated boiler feed unit. Pump(s) shall be mounted vertically and flanged to the receiver. Pump(s) shall be cast iron bronze fitted end suction centrifugal pumps with 250°F (300°F also available) mechanical seals close coupled to 115/230 Volts single or 208/460/575 Volts three phase 60 Hz, 3500 RPM, open drip-proof or totally enclosed electric motors.

Receiver shall be 50, 70, 120, 210 or 300 gallons 1/4" black steel with 2" vent, 3/4" drain and (2" or 3") inlet. Simplex (S-BFCE) and duplex (D-BFCE) unit shall include make-up valve, vent, a stem thermometer and a gauge glass installed on the tank. Suction isolation butterfly valve(s), inlet «Y» strainer(s), a stem thermometer, a gauge glass and metal flexible will be provided.

OPTIONS FOR SERIES CVC - BFC & BFCE

☐ «Y» Strainer
Simplex Basket Strainer (SBS)
Receivers can be furnished in stainless steel construction.
3/4» Solenoid on larger units.
NEMA 1 control panel with magnetic motor starters with HOA switch shall be furnished for each pump motor mounted and wired on receiver, for remote mounting Nema I enclosures.
FLO FAB Series DCP Duplex control panel with magnetic starters, HOA switches, with or without circuit breakers 115 volt control circuit transformer, 3rd leg overload protection, terminal strip, Nema I enclosure shall be furnished mounted on receiver & wired, for remote wall mounting Nema I enclosure with or without electric alternator



		Submit	ttal Data Sheet	Date:	
				Month	Day Year
IDENTI	FICATION/ T A	\G:			
DILL OF	AA A TEDIA I	e.			
	MATERIAL NSATE RETU		S CVC AND/OR BOIL	ER FEED UNITS SERIES	S BFC & BFCE
1) PUMP(
•	• •	upled cast iron, bronze	fitted casing, leak proof me	echanical shaft seal, stainless	steel large diameter
		•		rement allows handling of 25	
_			·	r being enclosed in a cast br	
		-	ernal cast iron baffle prever vithout disturbing the disch	nting pre-rotation of the con	densate.
THE CHAIC	Totaling assen	nory carried removed w	PUMP(s) SELECTIO		
	cvc	MODEL #		NODEL #	
				<u></u>	
	1	LEX (S-CVC)		APLEX (S-BFC)	
		(5 31 3)		PLEX (D-BFCE)	
				PLEX (D-BFC)	
	PUMI	P CAPACITY:	USGPM AT	PSI	
		ENTRIFUGAL PUMP(S)	SINGLE STAGE MU	ILTI-STAGE	
	2) C	LOSED COUPLED			
2) Motor	• •				
				aled and factory greased for built-in thermal overload pro	
standard at		ractional rip with de			Trection. Motors are
			Motor(s) Sel	ECTION	
		Motor(s) He	ODP TEF	C XP	
		60Hz SPEEI	o: 3450 RPM 175	O RPM 🗀	
		VOLTAGE: 11	5V 208V 230V	460V 575V	
			1 Phase 3 Pha		
3) RECEIVER	2		I PHASE S PHA		
•		nt and drain connection	ns.	CONDENSATE (CVC)	BOILER FEED (BFC OR BFCE)
	F	RECEIVER SELECTION		SELECTION	SELECTION
CAPACITY _		LONS TYPE: ASME		15 GALLONS	50 GALLONS
SHAPE: CYLINDRICAL RECTANGULAR CONSTRUCTION: STEEL 25 GALLONS STEEL W/DURATHERM LINING STAINLESS STEEL 70 GALLONS					
STEEL W/GALVANIZING CAST IRON (RECTANGULAR ONLY) STEEL W/GALVANIZING CAST IRON (RECTANGULAR ONLY) STEEL W/GALVANIZING CAST IRON (RECTANGULAR ONLY)					
					210 GALLONS
BLIND PLATE ON SIMPLEX UNITS FOR FUTURE EXPANSION					
Non Standard receiver Size:Gallons					
20 YEARS V	WARRANTY (OP	rional)			



	Submittal Data Sheet Date:
IDENTIFICATION	/TAG:
4) RECEIVER ACCES	SODIES
•	alternator connections for complete flexibility
	Accessories Selection
	THERMOMETER: RANGE 40°F TO 300°F STRAIGHT ANGLE DIAL
	GAUGE GLASS ASSEMBLY (STANDARD EXCEPT: 10 AND 15 GALLONS RECEIVERS)
	Additional receiver tappings Size:"
	ONE FLOAT SWITCH (SIMPLEX UNITS) TWO FLOAT SWITCHES (DUPLEX UNITS)
5) MECHANICAL CO	DAITPOLS
FOR CVC UNITS:	ONIROLS
	is provided by an internal mounted enclosed adjustable float switch assembly, for simplex (S-CVC) or two
	trol panel with electrical alternator for duplex (D-CVC) operation.
	Change the operating sequence automatically after each cycle.
	Provide simultaneous operation under peak load conditions
	Operate the second pump automatically, should the active pump or its control fail.
1	SELECTION SELECTION
	FOR SIMPLEX UNITS: ONE FLOAT SWITCH
	FOR DUPLEX UNITS: Two FLOAT SWITCH
	CONTROL PANEL W/ELECTRICAL ALTERNATOR
	NEMA PANEL HIGH LEVEL ALARM WITH FLOAT
	TANK ALERT MOUNTED UNMOUNTED BY OTHERS
	ISOLATION VALVE(S) (OPTIONAL) IF REQUIRED SIZE:
	DISCHARGE PRESSURE GAUGE(S) WITH MINI BALL VALVE(S) (OPTIONAL)
	INLET STRAINER FOR TANK RETURN CONNECTION (LOOSE) SIZE: " INLET BASKET STRAINER (CAST IRON RECEIVER) SIZE: "
For DEC or DEC	
FOR BFC OR BFCE	
	is provided by an internal mounted enclosed adjustable float switch operated by an internal make-up
valve for boiler feed	
	SELECTION
	FOR SIMPLEX UNITS: ONE FLOAT SWITCH
	FOR DUPLEX UNITS: TWO FLOAT SWITCHES
	OR CONTROL PANEL W/ELECTRICAL ALTERNATOR NEMA PANEL High Level Alarm with Float
	TANK ALERT MOUNTED UNMOUNTED BY OTHERS
	ISOLATION VALVE(S) (OPTIONAL) IF REQUIRED SIZE:
	DISCHARGE PRESSURE GAUGE(S) WITH MINI BALL VALVE(S) (OPTIONAL)
	PRESSURE GAUGE(S): DRY LIQUID FILLED
	INLET STRAINER FOR TANK RETURN CONNECTION (LOOSE) SIZE:
	INLET Y STRAINER SIZE: " INLET BASKET STRAINER SIZE: "
	FLOAT OPERATED INTERNAL MAKE-UP VALVE
	Gauge glass and shut-off valves (on BFC 15 to 200 Gallons receivers)
6) ELECTRICAL CON	TROLS

See EP panel for proper selection. All panels are CSA and/or UL approved.



BOILER FEED UNIT SERIES BFC & BFCE

)ate:	
Jucc.	Month

OPTIONAL MODIFICATIONS A۷ **NITS**

VAILABLE FOR CONDENSATE (CVC) AND BOILER FEED (BFC OR BFCE) U
MECHANICAL MODIFICATIONS
FLO FAB CONDENSATE RETURN UNITS SERIES CVC CAN BE FURNISHED AS AN
AUTOMATIC BOILER FEED UNIT SERIES BFC OR BFCE BY SUBSTITUTING COLD WATER
MAKE-UP VALVE ASSEMBLY FOR FLOAT SWITCH, SELECTING A LARGE RECEIVER AND
ACTUATING THE PUMP MOTOR BY A BOILER WATER LEVEL CONTROLLER.
(MECHANICAL OPERATION OR SOLENOID ACTUATED BY A FLOAT SWITCH)
ELECTRICAL MODIFICATIONS
Totally enclosed motors and NEMA - 4 float switches and starters
(MOTOR HP SIZE MAY BE INCREASED) WIRING IN SEAL-TIGHT CONDUIT
EXPLOSION PROOF MOTORS AND NEMA - 7 FLOAT SWITCHES AND STARTERS
(MOTOR HP MAY BE INCREASED)
VARIOUS MAGNETIC STARTERS ARRANGEMENTS INCLUDING:
DUPLEX CONTROL PANELS, COMBINATION STARTERS WITH VARIOUS FORMS OF
DISCONNECTS OR CIRCUIT BREAKERS, WATER RESISTANT OR EXPLOSION PROOF
ENCLOSURES, HAND-OFF AUTO SWITCHES, PILOT LIGHTS AND TRANSFORMERS
PROVIDING LOW CONTROL VOLTAGE. ALL ARRANGEMENTS ARE CSA AND/OR UL
APPROVED. TRANSFER SWITCHES TO ALTERNATE PUMP OPERATION OR
TRANSFER PUMP-BOILER RELATIONSHIP IN MULTIPLE BOILER INSTALLATIONS.
SEE TABLE.
HIGH WATER ALARM
OR LOW WATER ALARM (TANK ALERT) ACTUATED BY FLOAT SWITCH.

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