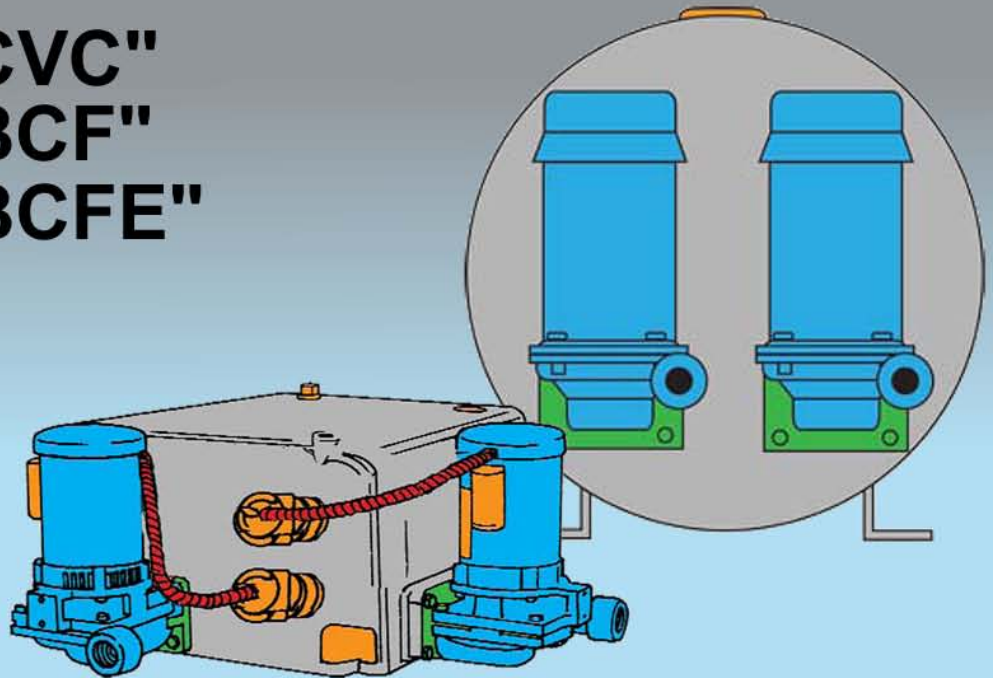


FLO FAB



Condensate & Boiler Feed Units

Series "CVC"
"BCF"
"BCFE"



www.flofab.com

Manufacturer of Pumps, Tanks, Heat Exchangers & Accessories
for HVAC Market After-Sales Parts and Services

Condensate & Boiler Feed Units
Series "CVC" - Condensate
"BFC" - Boiler Feed
"BCFE" - Elevated
Boiler Feed

FLO FAB INC
LAKE WORTH,
FLORIDA, USA

Condensate Units Series CVC FLO FAB

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 CVC condensate pumps are used in low pressure heating systems to collect and quickly return condensate to the boiler feed unit. Their pumping action is controlled by the water level in the receiver. Simplex (S-CVC) units consist of an electric motor closed-coupled to centrifugal pump mounted on a cast iron or a welded steel storage receiver with a float operated pump control. Duplex pump units (D-CVC) are used when greater pumping capacity or back-up pump protection is required.

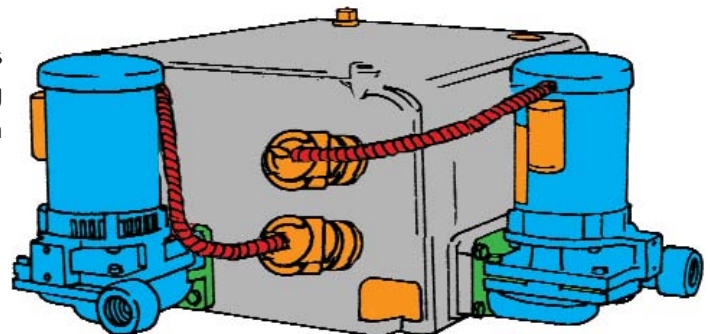
NOTE: Condensate pumps do not supply boiler system make-up water.

CONDENSATE PUMPS STANDARD EQUIPMENT

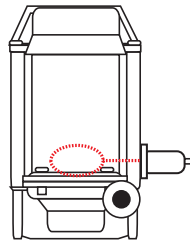
- 1) Simplex (S-CVC) units have opening blanked-off for addition of a second pump at a later date.
- 2) One float switch on Simplex (S-CVC) unit or Two float switches and electrical alternator on duplex (D-CVC) units- equalizes running time between the two pumps and provides emergency back-up in case of excessive condensate return or pump failure.
- 3) Gauge glass and thermometer

OPTIONAL EQUIPMENT

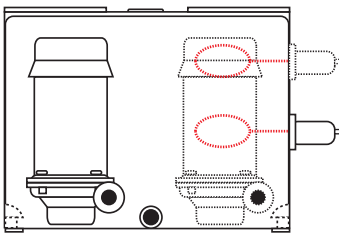
- Control panels
- Magnetic starter - mounted on unit and factory wired
- Suction isolation valve - Butterfly type
- Inlet strainers - "Y" or basket type
- Magnesium corrosion inhibitor
- Discharge pressure gauges
- Discharge check valves
- Discharge gate valves



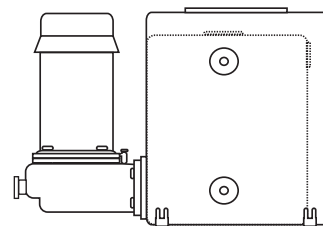
**DUPLEX (D-CVC)
CONDENSATE UNIT**



SIMPLEX CONDENSATE UNIT



SIMPLEX (OR DUPLEX) CONDENSATE UNIT



SIMPLEX (OR DUPLEX) CONDENSATE UNIT SIDEVIEW

CONDENSATE RETURN UNITS (ADAPTABLE TO BOILER FEED UNITS WITH MAKE-UP VALVE)

FLO FAB Simplex (S-CVC) and Duplex (D-CVC) condensate units Series CVC are designed for automatic and fast return of hot water condensation from radiators, coils, etc, to low and high pressure boilers, or for return of water or other liquids to the overhead tanks of industrial gravity circulating systems. Unlike boiler feed systems, which are controlled by a boiler mounted control and equipped with a make-up valve mechanism, condensate pumps usually do not directly supply boiler make-up water.

All units are shipped complete, ready for fast, easy installation into any system and they are precision engineered for heavy, continuous service in handling water up to 250°F (121°C). The duplex unit is designed for systems having extra heavy loads of condensate or other liquid return, or where a stand-by pump is required. Isolation valves between receiver and pump flange are available.

MECHANICAL SEAL

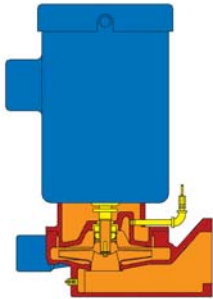
Designed especially for this service, provides leak proof operation through the full range of condensate temperatures and pump pressure. Up to 250°F (300°F also available)

SEAL PIPING

Insures continuous venting of mechanical seal and positive water circulation through the seal cavity.

IMPELLER

One piece bronze cast enclosed impeller, which produces extremely smooth water passages and resulting optimum performance. It is keyed to the shaft and held in place with stainless steel washer and self locking impeller screw.



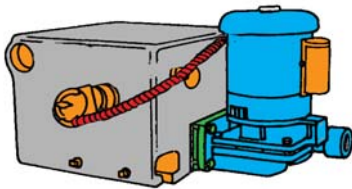
CENTRIFUGAL PUMP SERIES GV

FLO FAB CENTRIFUGAL PUMP SERIES GV

Vertically flange mounted centrifugal pumps are of bronze fitted construction with mechanical shaft seal for temperatures up to 250°F (up to 300°F 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

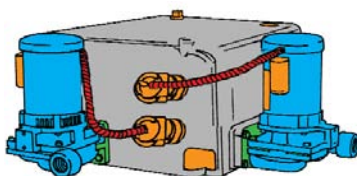
Rugged steel or cast iron receivers for life-time service under the most severe conditions. Low return inlet to provide adequate drainage of radiators with low elevation. Available in 15, 25, 35, 45, 70, 120 gallons sizes. Larger sizes are also available. Condensate receiver tanks are designed for gravity 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 be at least 1 1/4" diameter.



**SIMPLEX (S-CVC)
CONDENSATE UNIT**

CONTROLS

Simplex (S-CVC) systems are equipped with a heavy duty adjustable float switch and a stainless steel float and rod. Duplex (D-CVC) 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.



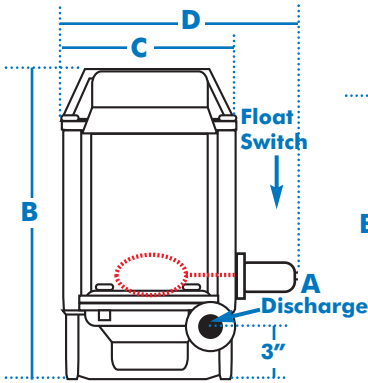
**DUPLEX (D-CVC)
CONDENSATE UNIT**

MOTORS

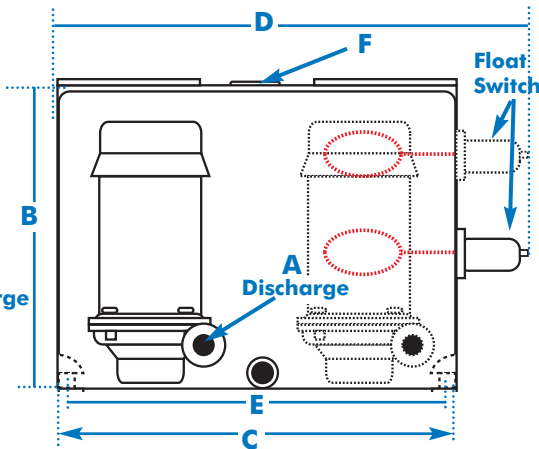
Drip proof or TEFC NEMA standard 3450 RPM motors have dual ball bearings and threaded stainless steel shaft. All single phase motors have built-in thermal overload protection. All three phase motors must be installed with a magnetic starter which provides full overload protection. Failure to use proper starter and overload protectors will void warranty. Single phase motors thru 2Hp are 115V or 230V 60Hz (50 cycles also available) and 3Hp or more are 230V only. Three phase motors are 230V, 460V or 575V 60Hz (50 cycles also available).



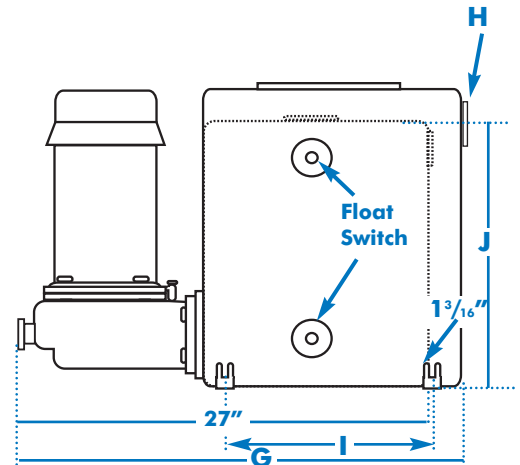
FLO FAB Condensate Units Series CVC with GV6 Pumps



**SIMPLEX CONDENSATE UNIT
CAST IRON 15 GALLONS**



**SIMPLEX (OR DUPLEX) CONDENSATE UNIT
CAST IRON 25 GALLONS OR MORE**
 [Dashed Box] = DUPLEX UNIT (2 FLOAT SWITCHES)



**SIMPLEX (OR DUPLEX) CONDENSATE UNIT SIDEVIEW
CAST IRON 25 GALLONS OR MORE**
 [Dashed Box] = SIMPLEX 15 GALLONS UNIT

Receiver Capacity	Disch. A	B	C	D	E	F	G	H	I	J
15 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	16" 406.4 mm	23" 584.2 mm	31" 787.4 mm	17 ¹ / ₄ " 438.6 mm	2" 50.8 mm	27" 685.8 mm	2" 50.8 mm	12" 304.8 mm	15" 381 mm
25 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	18 ³ / ₄ " 476.3 mm	34 ³ / ₄ " 882.7 mm	42 ³ / ₄ " 1086 mm	32 ³ / ₄ " 831.9 mm	2" 50.8 mm	31" 787.4 mm	3" 76.2 mm	7" 177.8 mm	15" 381 mm
35 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	18 ³ / ₄ " 476.3 mm	34 ³ / ₄ " 882.7 mm	42 ³ / ₄ " 1086 mm	32 ³ / ₄ " 831.9 mm	2" 50.8 mm	36" 914.4 mm	3" 76.2 mm	12" 304.8 mm	15" 381 mm
45 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	18 ³ / ₄ " 476.3 mm	38 ³ / ₄ " 984.3 mm	46 ³ / ₄ " 1187 mm	32 ¹ / ₂ " 825.5 mm	2" 50.8 mm	38" 965.2 mm	3" 76.2 mm	14" 355.6 mm	15" 381 mm
70 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	18 ³ / ₄ " 476.3 mm	47 ³ / ₄ " 1213 mm	55 ³ / ₄ " 1416 mm	41 ¹ / ₂ " 1054 mm	2" 50.8 mm	42" 1067 mm	3" 76.2 mm	18" 457.2 mm	15" 381 mm
120 Gal	2 ¹ / ₂ "x1 ¹ / ₄ " 50x32 mm	20 ³ / ₄ " 527.1 mm	47 ³ / ₄ " 1213 mm	55 ³ / ₄ " 1416 mm	41 ¹ / ₂ " 1054 mm	2" 50.8 mm	54" 1372 mm	4" 101.6 mm	29" 736.6 mm	15" 381 mm

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

Condensate Units Series CVC with CCF/CGF/CKHF Pumps



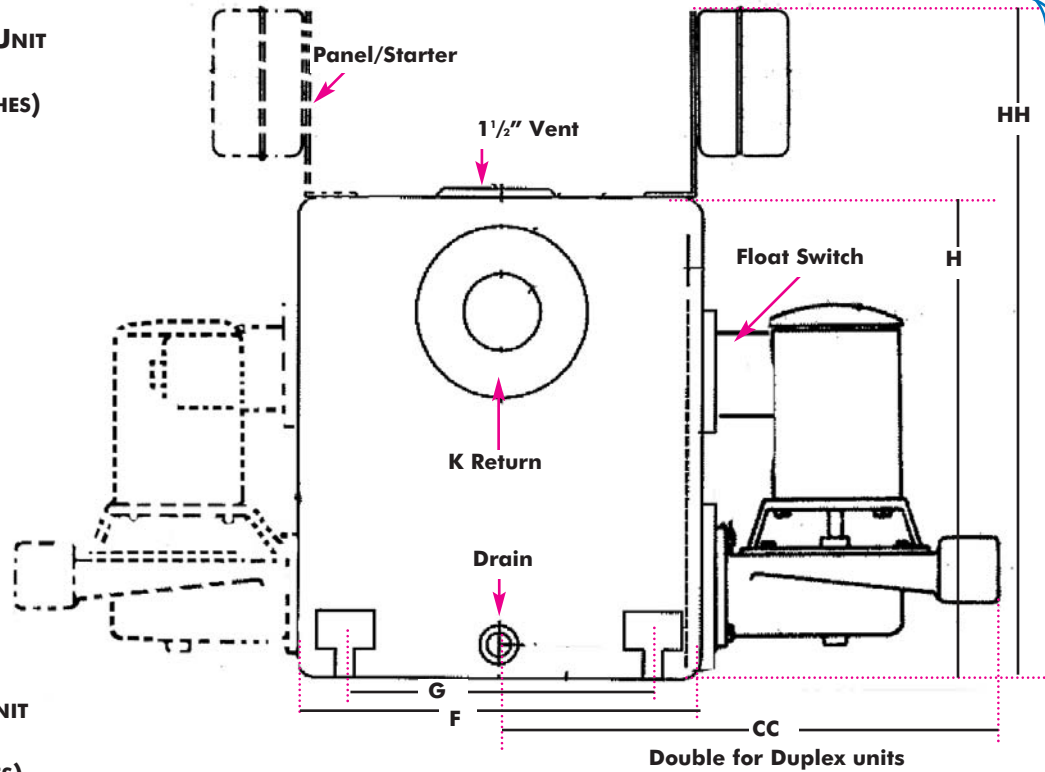
PANEL OR STARTER(S)

MOUNTED SHIPPED LOOSE

SIMPLEX (OR DUPLEX) CONDENSATE UNIT

CAST IRON 15 GALLONS OR MORE

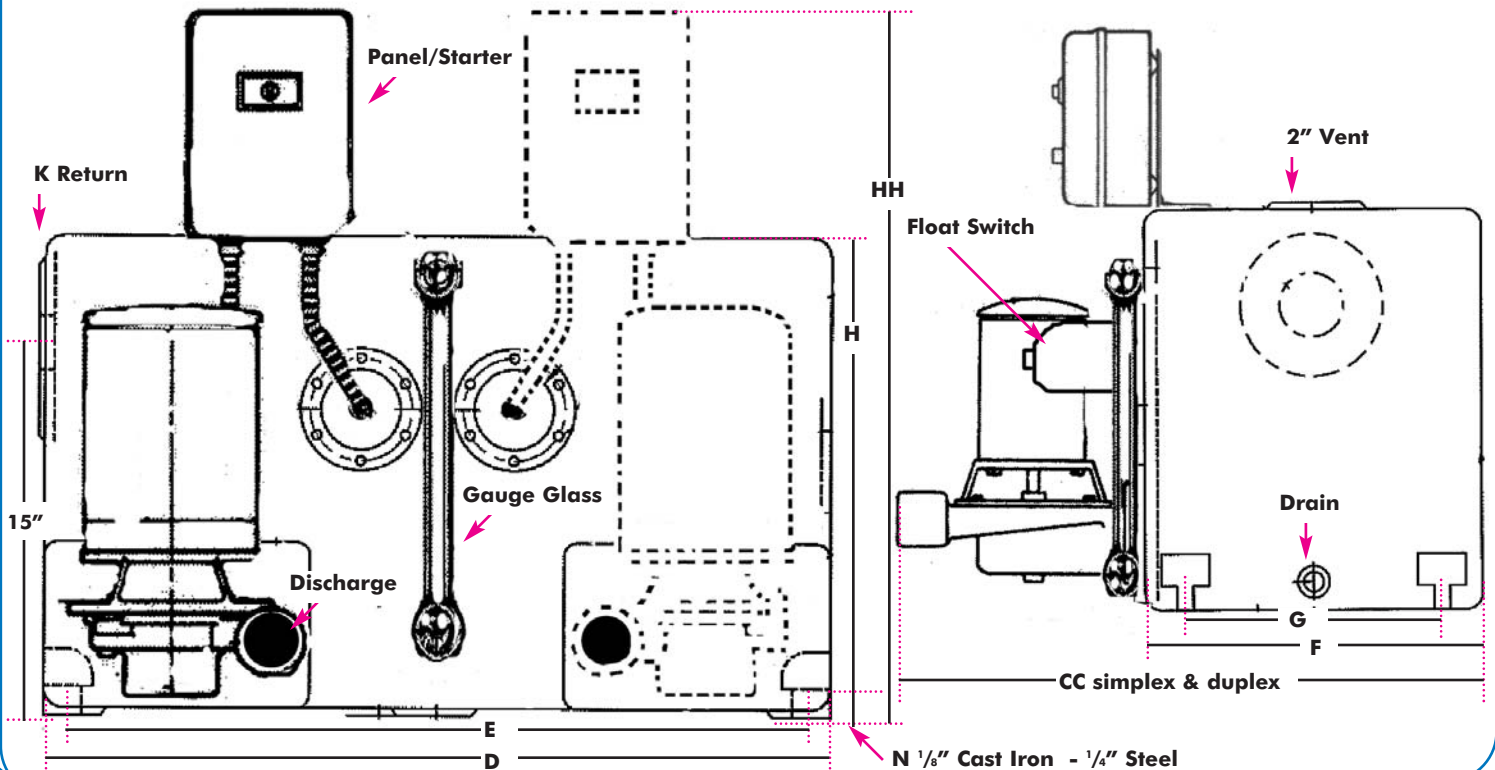
= DUPLEX UNIT (2 FLOAT SWITCHES)



SIMPLEX (OR DUPLEX) CONDENSATE UNIT

CAST IRON 25 GALLONS OR MORE

= DUPLEX UNIT (2 FLOAT SWITCHES)





FLO FAB Condensate Units Series CVC with CCF/CGF/CKHF Pumps

* SEE DRAWINGS ON PAGE 5

Receiver Capacity	Pump Models	CC	Cast Iron		Steel		F	G	H	HH	K	Drain
			D	E	D	E						
15	CC	17 ¹ / ₂ " 444.5 mm	19" 482.6 mm	13" 330.2 mm	23" 584.2 mm	17 ¹ / ₄ " 438.2 mm	13 ⁵ / ₈ " 344.2 mm	12" 304.8 mm	16" 406.4 mm	25" 635 mm	2" 50.8 mm	3/4" 19.05mm
	CG	19 ¹ / ₂ " 495.3 mm	19" 482.6 mm	13" 330.2 mm	23" 584.2 mm	17 ¹ / ₄ " 438.2 mm	13 ⁵ / ₈ " 344.2 mm	12" 304.8 mm	16" 406.4 mm	25" 635 mm	2" 50.8 mm	3/4" 19.05mm
	CK	25" 635 mm	19" 482.6 mm	13" 330.2 mm	23" 584.2 mm	17 ¹ / ₄ " 438.2 mm	13 ⁵ / ₈ " 344.2 mm	12" 304.8 mm	16" 406.4 mm	25" 635 mm	2" 50.8 mm	3/4" 19.05mm
	CKH	27" 685.8 mm	19" 482.6 mm	13" 330.2 mm	23" 584.2 mm	17 ¹ / ₄ " 438.2 mm	13 ⁵ / ₈ " 344.2 mm	12" 304.8 mm	16" 406.4 mm	25" 635 mm	2" 50.8 mm	3/4" 19.05mm
25	CC	21 ¹ / ₂ " 546.1 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	10 ³ / ₄ " 273.1 mm	7" 177.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CG	24 ¹ / ₂ " 622.3 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	10 ³ / ₄ " 273.1 mm	7" 177.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CK	29" 736.6 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	10 ³ / ₄ " 273.1 mm	7" 177.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CKH	31" 787.4 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	10 ³ / ₄ " 273.1 mm	7" 177.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
35	CC	26 ¹ / ₂ " 673.1 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	15 ³ / ₄ " 400.1 mm	12" 304.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CG	29 ¹ / ₂ " 749.3 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	15 ³ / ₄ " 400.1 mm	12" 304.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CK	34" 863.6 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	15 ³ / ₄ " 400.1 mm	12" 304.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CKH	36" 914.4 mm	30 ³ / ₄ " 781.1 mm	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ³ / ₄ " 831.9 mm	15 ³ / ₄ " 400.1 mm	12" 304.8 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
45	CC	28 ¹ / ₂ " 723.9 mm	34 ³ / ₄ " 882.7 mm	32 ¹ / ₂ " 825.5 mm	38 ³ / ₄ " 984.3 mm	36 ³ / ₄ " 933.5 mm	17 ³ / ₄ " 450.9 mm	14" 355.6 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CG	31 ¹ / ₂ " 800.1 mm	34 ³ / ₄ " 882.7 mm	32 ¹ / ₂ " 825.5 mm	38 ³ / ₄ " 984.3 mm	36 ³ / ₄ " 933.5 mm	17 ³ / ₄ " 450.9 mm	14" 355.6 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CK	36" 914.4 mm	34 ³ / ₄ " 882.7 mm	32 ¹ / ₂ " 825.5 mm	38 ³ / ₄ " 984.3 mm	36 ³ / ₄ " 933.5 mm	17 ³ / ₄ " 450.9 mm	14" 355.6 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
	CKH	38" 965.2 mm	34 ³ / ₄ " 882.7 mm	32 ¹ / ₂ " 825.5 mm	38 ³ / ₄ " 984.3 mm	36 ³ / ₄ " 933.5 mm	17 ³ / ₄ " 450.9 mm	14" 355.6 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	3/4" 19.05mm
70	CC	32 ¹ / ₂ " 825.5 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	21 ³ / ₄ " 552.5 mm	18" 457.2 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	1 ¹ / ₄ " 31.75mm
	CG	35 ¹ / ₂ " 901.7 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	21 ³ / ₄ " 552.5 mm	18" 457.2 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	1 ¹ / ₄ " 31.75mm
	CK	40" 1016 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	21 ³ / ₄ " 552.5 mm	18" 457.2 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	1 ¹ / ₄ " 31.75mm
	CKH	42" 1067 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	21 ³ / ₄ " 552.5 mm	18" 457.2 mm	18 ³ / ₄ " 476.3 mm	28" 711.2 mm	3" 76.2 mm	1 ¹ / ₄ " 31.75mm
120	CC	44 ¹ / ₂ " 1130 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	32 ³ / ₄ " 831.9 mm	29" 736.6 mm	20 ³ / ₄ " 527.1 mm	30" 762 mm	4" 102 mm	1 ¹ / ₄ " 31.75mm
	CG	47 ¹ / ₂ " 1207 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	32 ³ / ₄ " 831.9 mm	29" 736.6 mm	20 ³ / ₄ " 527.1 mm	30" 762 mm	4" 102 mm	1 ¹ / ₄ " 31.75mm
	CK	52" 1321 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	32 ³ / ₄ " 831.9 mm	29" 736.6 mm	20 ³ / ₄ " 527.1 mm	30" 762 mm	4" 102 mm	1 ¹ / ₄ " 31.75mm
	CKH	54" 1372 mm	43 ³ / ₄ " 1111 mm	41 ¹ / ₂ " 1054 mm	47 ³ / ₄ " 1213 mm	45 ³ / ₄ " 1162 mm	32 ³ / ₄ " 831.9 mm	29" 736.6 mm	20 ³ / ₄ " 527.1 mm	30" 762 mm	4" 102 mm	1 ¹ / ₄ " 31.75mm

Condensate Unit Selection Tables



IDENTIFICATION: _____ VOLTS / _____ HP / _____ HZ

* USING CLOSED COUPLED SERIES GV6 ONLY.

MODEL SPECIFICATIONS

EX: **D** - **CVC** - **1010** - **15**

S = SIMPLEX
D = DUPLEX

UNIT TYPE
CVC = CONDENSATE
BFC = BOILER FEED
BFCE = ELEVATED BOILER FEED

RECEIVER SIZES

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. = 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

Unit Model Number	Boiler Hp	Pump USGPM	Tank Capa. Gallons	Pump Disch Press. PSI	3450 RPM	
	E.D.R (sq. ft)				Motor Hp	Imp. Dia (in)
<input type="checkbox"/> Simplex <input type="checkbox"/> Duplex	BTUH (1000's)					
CVC - 0210	Hp 14	3	15	10	1/4	2.52
CVC - 0215				15	1/3	2.98
CVC - 0220	EDR 2,000			20	1/2	3.42
CVC - 0230				30	1/2	4.18
CVC - 0240				40	3/4	4.83
CVC - 0250	BTUH 490			50	1	5.40
CVC - 0255		55	1 1/2	5.63		
CVC - 0410	Hp 29	6	15	10	1/4	2.52
CVC - 0415				15	1/3	2.98
CVC - 0420	EDR 4,000			20	1/3	3.42
CVC - 0430				30	1/2	4.19
CVC - 0440				40	3/4	4.83
CVC - 0450	BTUH 990			50	1	5.40
CVC - 0455		55	1 1/2	5.70		
CVC - 0610	Hp 43	9	15	10	1/3	2.53
CVC - 0615				15	1/3	2.99
CVC - 0620	EDR 6,000			20	1/3	3.42
CVC - 0630				30	1/2	4.19
CVC - 0640				40	3/4	4.83
CVC - 0650	BTUH 1,480			50	1	5.40
CVC - 0655		55	1 1/2	5.68		
CVC - 0810	Hp 57	12	15	10	1/3	2.53
CVC - 0815				15	1/3	2.99
CVC - 0820	EDR 8,000			20	1/3	3.43
CVC - 0830				30	3/4	4.19
CVC - 0840				40	1	4.84
CVC - 0850	BTUH 1,975			50	1 1/2	5.41
CVC - 0855		55	1 1/2	5.68		
CVC - 1010	Hp 72	15	15	10	1/3	2.55
CVC - 1015				15	1/3	3.00
CVC - 1020	EDR 10,000			20	1/3	3.43
CVC - 1030				30	3/4	4.20
CVC - 1040				40	3/4	4.84
CVC - 1050	BTUH 2,470			50	1 1/2	5.41
CVC - 1055		55	1 1/2	5.68		

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



FLO FAB Condensate Unit Selection Tables

IDENTIFICATION: _____ VOLTS / _____ Hp / _____ Hz

* USING CLOSED COUPLED SERIES GV6 ONLY.

Unit Model Number <input type="checkbox"/> Simplex <input type="checkbox"/> Duplex	Boiler Hp	Pump USGPM	Tank Capa. Gallons	Pump Disch Press. PSI	3450 RPM		Unit Model Number <input type="checkbox"/> Simplex <input type="checkbox"/> Duplex	Boiler Hp	Pump USGPM	Tank Capa. Gallons	Pump Disch Press. PSI	3450 RPM	
	E.D.R (sq. ft)				Motor Hp	Imp. Dia (in)		E.D.R (sq. ft)				Motor Hp	Imp. Dia (in)
	BTUH (1000's)							BTUH (1000's)					
CVC - 1510	Hp 108	22 1/2	25	10	1/3	2.62	CVC - 5010	75	70	N/A			
CVC - 1515				15	1/3	3.05	CVC - 5015						
CVC - 1520				EDR 15,000	20	1/2	3.47						CVC - 5020
CVC - 1530					30	3/4	4.22						CVC - 5030
CVC - 1540				BTUH 3,600	40	1	4.86						CVC - 5040
CVC - 1550					50	1 1/2	5.42						CVC - 5050
CVC - 1555	55	1 1/2	5.70		CVC - 5055								
CVC - 2010	Hp 143	30	25	10	1/3	2.66	CVC - 6510	97 1/2	70	N/A			
CVC - 2015				15	1/3	3.15	CVC - 6515						
CVC - 2020				EDR 20,000	20	1/2	3.55						CVC - 6520
CVC - 2030					30	3/4	4.27						CVC - 6530
CVC - 2040				BTUH 4,940	40	1	4.89						CVC - 6540
CVC - 2050					50	1 1/2	5.45						CVC - 6550
CVC - 2055	55	2	5.68		CVC - 6555								
CVC - 2510	Hp 179	37 1/2	35	10	1/3	2.94	CVC - 7510	112 1/2	70	N/A			
CVC - 2515				15	1/2	3.30	CVC - 7515						
CVC - 2520				EDR 25,000	20	1/2	3.67						CVC - 7520
CVC - 2530					30	1	4.35						CVC - 7530
CVC - 2540				BTUH 6,170	40	1 1/2	4.95						CVC - 7540
CVC - 2550					50	2	5.50						CVC - 7550
CVC - 2555	55	2	5.68		CVC - 7555								
CVC - 3010	Hp 215	45	35	10	--	--	CVC - 10010	150	120	N/A			
CVC - 3015				15	1/2	3.50	CVC - 10015						
CVC - 3020				EDR 30,000	20	3/4	3.83						CVC - 10020
CVC - 3030					30	1	4.46						CVC - 10030
CVC - 3040				BTUH 7,400	40	1 1/2	5.04						CVC - 10040
CVC - 3050					50	2	5.57						CVC - 10050
CVC - 3055	55	--	--		CVC - 10055								
CVC - 4010	Hp 285	60	45	10	--	--							
CVC - 4015				15	--	--							
CVC - 4020				EDR 40,000	20	1	4.35						
CVC - 4030					30	1 1/2	4.79						
CVC - 4040				BTUH 9,880	40	2	5.31						
CVC - 4050					50	2	5.68						
CVC - 4055	55	--	--										

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

Selection Tables Series CCF-CGF-CKHF

Unit Model Number	Boiler Hp		Pump USGPM	Tank Capa. Gallons	Pump Disch. PSI	Motor Hp		Pump Size & type	
	E.D.R (sq. ft)	BTUH (1000's)				3450 RPM	1750 RPM	3450 RPM	1750 RPM
CVC - 0210	14	2,000	3	15	10	1/3	1/4	1 1/4 CCF	1 1/4 CCF
CVC - 0215	14	2,000	3	15	15	1/3	1/3	1 1/4 CCF	1 1/4 CCF
CVC - 0220	14	2,000	3	15	20	1/3	1/2	1 1/4 CCF	1 CGF
CVC - 0230	14	2,000	3	15	30	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 0240	14	2,000	3	15	40	3/4	2	1 1/4 CCF	1 1/2 CKF
CVC - 0250	14	2,000	3	15	50	1	3	1 1/4 CCF	2 CKHF
CVC - 0260	14	2,000	3	15	60	1 1/2	5	1 CGF	2 CKHF
CVC - 0270	14	2,000	3	15	70	2	7 1/2	1 CGF	2 CKHF
CVC - 0280	14	2,000	3	15	80	3	--	1 CGF	--
CVC - 0410	29	4,000	6	15	10	1/3	1/4	1 1/4 CCF	1 1/4 CCF
CVC - 0415	29	4,000	6	15	15	1/3	1/3	1 1/4 CCF	1 1/4 CCF
CVC - 0420	29	4,000	6	15	20	1/3	1/2	1 1/4 CCF	1 CGF
CVC - 0430	29	4,000	6	15	30	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 0440	29	4,000	6	15	40	3/4	2	1 1/4 CCF	1 1/2 CKF
CVC - 0450	29	4,000	6	15	50	1	3	1 1/4 CCF	2 CKHF
CVC - 0460	29	4,000	6	15	60	1 1/2	5	1 CGF	2 CKHF
CVC - 0470	29	4,000	6	15	70	2	7 1/2	1 CGF	2 CKHF
CVC - 0480	29	4,000	6	15	80	3	--	1 CGF	--
CVC - 0610	43	6,000	9	15	10	1/3	1/4	1 1/4 CCF	1 1/4 CCF
CVC - 0615	43	6,000	9	15	15	1/3	1/3	1 1/4 CCF	1 1/4 CCF
CVC - 0620	43	6,000	9	15	20	1/3	1/2	1 1/4 CCF	1 CGF
CVC - 0630	43	6,000	9	15	30	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 0640	43	6,000	9	15	40	3/4	2	1 1/4 CCF	1 1/2 CKF
CVC - 0650	43	6,000	9	15	50	1	3	1 1/4 CCF	2 CKHF
CVC - 0660	43	6,000	9	15	60	1 1/2	5	1 CGF	2 CKHF
CVC - 0670	43	6,000	9	15	70	2	7 1/2	1 CGF	2 CKHF
CVC - 0680	43	6,000	9	15	80	3	--	1 CGF	--
CVC - 0810	57	8,000	12	15	10	1/3	1/4	1 1/4 CCF	1 1/4 CCF
CVC - 0815	57	8,000	12	15	15	1/3	1/3	1 1/4 CCF	1 1/4 CCF
CVC - 0820	57	8,000	12	15	20	1/3	1/2	1 1/4 CCF	1 CGF
CVC - 0830	57	8,000	12	15	30	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 0840	57	8,000	12	15	40	3/4	2	1 1/4 CCF	1 1/2 CKF
CVC - 0850	57	8,000	12	15	50	1	3	1 1/4 CCF	2 CKHF
CVC - 0860	57	8,000	12	15	60	1 1/2	5	1 CGF	2 CKHF
CVC - 0870	57	8,000	12	15	70	2	7 1/2	1 CGF	2 CKHF
CVC - 0880	57	8,000	12	15	80	3	--	1 CGF	--
CVC - 1010	72	10,000	15	15	10	1/3	1/4	1 1/4 CCF	1 1/4 CCF
CVC - 1015	72	10,000	15	15	15	1/3	1/3	1 1/4 CCF	1 1/4 CCF
CVC - 1020	72	10,000	15	15	20	1/3	1/2	1 1/4 CCF	1 CGF
CVC - 1030	72	10,000	15	15	30	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 1040	72	10,000	15	15	40	3/4	2	1 1/4 CCF	1 1/2 CKF
CVC - 1050	72	10,000	15	15	50	1	3	1 1/4 CCF	2 CKHF
CVC - 1060	72	10,000	15	15	60	1 1/2	5	1 CGF	2 CKHF
CVC - 1070	72	10,000	15	15	70	2	7 1/2	1 CGF	2 CKHF
CVC - 1080	72	10,000	15	15	80	3	--	1 CGF	--
CVC - 2510	179	20,000	30	25	10	1/3	1/3	1 1/4 CCF	1 1/2 CKF
CVC - 2515	179	20,000	30	25	15	1/3	1/2	1 1/4 CCF	1 1/2 CKF
CVC - 2520	179	20,000	30	25	20	1/2	3/4	1 1/4 CCF	1 CGF
CVC - 2530	179	20,000	30	25	30	3/4	1 1/2	1 1/4 CCF	1 1/2 CKF
CVC - 2540	179	20,000	30	25	40	1	2	1 1/4 CCF	1 1/2 CKF
CVC - 2550	179	20,000	30	25	50	2	3	1 1/2 CGF	2 CKHF
CVC - 2560	179	20,000	30	25	60	3	5	1 CGF	2 CKHF
CVC - 2570	179	20,000	30	25	70	5	7 1/2	1 CGF	2 CKHF
CVC - 2580	179	20,000	30	25	80	5	--	1 CGF	--
CVC - 3010	215	30,000	45	35	10	1/3	1/3	1 1/4 CCF	1 1/2 CKF
CVC - 3015	215	30,000	45	35	15	1/2	3/4	1 1/4 CCF	1 CGF
CVC - 3020	215	30,000	45	35	20	1/2	1	1 1/4 CCF	1 1/2 CKF
CVC - 3030	215	30,000	45	35	30	3/4	1 1/2	1 1/4 CCF	1 1/2 CKF
CVC - 3040	215	30,000	45	35	40	1 1/2	2	1 1/4 CCF	1 1/2 CKF
CVC - 3050	215	30,000	45	35	50	2	3	1 CGF	2 CKHF
CVC - 3060	215	30,000	45	35	60	3	5	1 CGF	2 CKHF
CVC - 3070	215	30,000	45	35	70	5	7 1/2	1 CGF	2 CKHF
CVC - 3080	215	30,000	45	35	80	5	--	1 CGF	--
CVC - 4010	285	40,000	60	45	10	1/2	1/2	1 1/4 CCF	1 1/2 CKF
CVC - 4015	285	40,000	60	45	15	3/4	3/4	1 1/4 CCF	1 1/2 CKF
CVC - 4020	285	40,000	60	45	20	3/4	1	1 1/4 CCF	1 1/2 CKF
CVC - 4030	285	40,000	60	45	30	1	2	1 1/4 CCF	1 1/2 CKF
CVC - 4040	285	40,000	60	45	40	1 1/2	3	1 1/4 CCF	1 1/2 CKF
CVC - 4050	285	40,000	60	45	50	3	5	1 1/2 CGF	2 CKHF
CVC - 4060	285	40,000	60	45	60	3	5	1 CGF	2 CKHF
CVC - 4070	285	40,000	60	45	70	5	7 1/2	1 CGF	2 CKHF
CVC - 4080	285	40,000	60	45	80	5	--	1 CGF	--

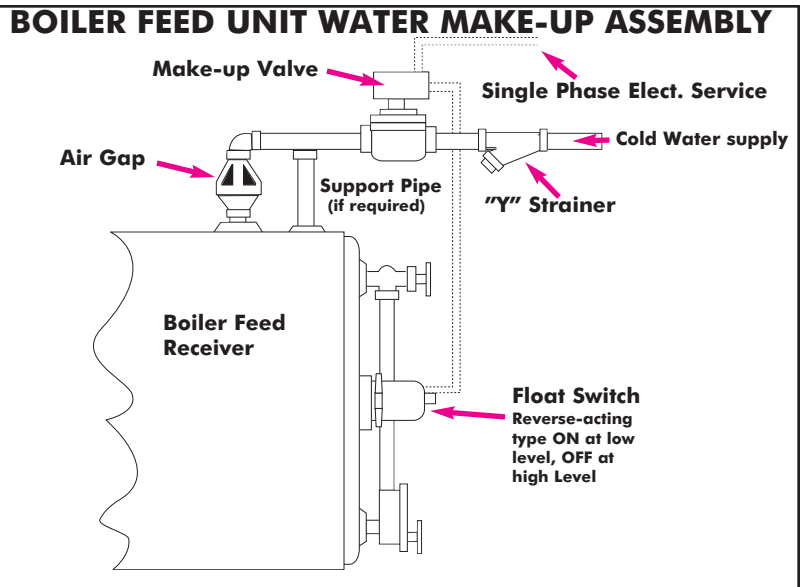
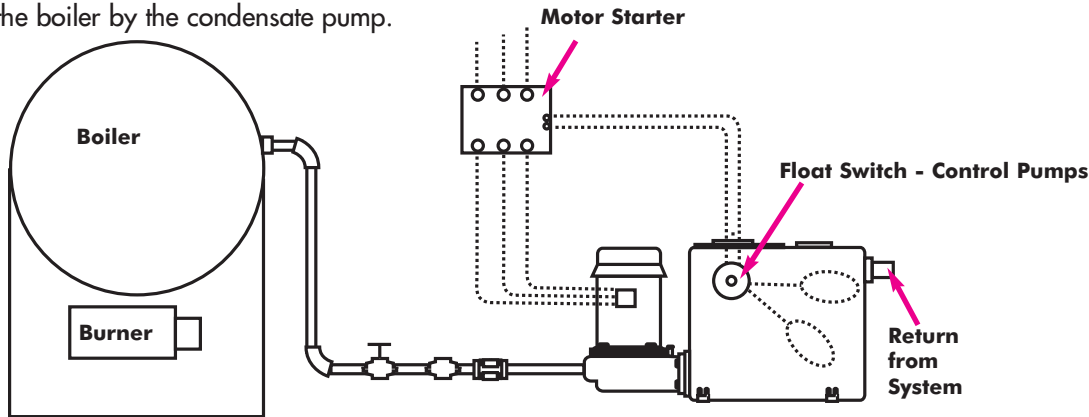


Unit Model Number	Boiler Hp	Pump USGPM	Tank Capa. Gallons	Pump Disch Press. PSI	Motor Hp		Pump Disch. Size & type	
	E.D.R (sq. ft)				3450 RPM	1750 RPM	3450 RPM	1750 RPM
	BTUH (1000's)							
<input type="checkbox"/> Simplex <input type="checkbox"/> Duplex								
CVC - 5010	Hp 358 EDR 50,000 BTUH 12,000	75	70	10	³ / ₄	³ / ₄	1 1/2 CCF	1 1/2 CGF
CVC - 5015				15	³ / ₄	1	1 1/2 CCF	1 1/2 CGF
CVC - 5020				20	1	1 1/2	1 1/2 CCF	1 1/2 CGF
CVC - 5030				30	1 1/2	2	1 1/2 CCF	1 1/2 CKF
CVC - 5040				40	2	3	1 1/2 CGF	1 1/2 CKF
CVC - 5050				50	3	5	1 1/2 CGF	2 CKHF
CVC - 5060				60	5	7 1/2	1 1/2 CGF	2 CKHF
CVC - 5070				70	5	7 1/2	1 CGF	2 CKHF
CVC - 5080				80	5	--	1 CGF	--
CVC - 6510				Hp 450 EDR 65,000 BTUH 15,000	97 1/2	70	10	1
CVC - 6515	15	1 1/2	1				1 1/2 CCF	1 1/2 CGF
CVC - 6520	20	1 1/2	1 1/2				1 1/2 CCF	1 1/2 CGF
CVC - 6530	30	2	3				1 1/2 CCF	1 1/2 CKF
CVC - 6540	40	3	3				1 1/2 CCF	1 1/2 CKF
CVC - 6550	50	5	5				1 1/2 CGF	2 CKHF
CVC - 6560	60	7 1/2	7 1/2				1 1/2 CGF	2 CKHF
CVC - 6570	70	7 1/2	10				1 1/2 CGF	2 CKHF
CVC - 6580	80	10	--				1 1/2 CGF	--
CVC - 7510	Hp 538 EDR 75,000 BTUH 18,000	112 1/2	70				10	1
CVC - 7515				15	1 1/2	1	1 1/2 CCF	1 1/2 CGF
CVC - 7520				20	2	1 1/2	1 1/2 CCF	1 1/2 CGF
CVC - 7530				30	3	3	1 1/2 CGF	1 1/2 CKF
CVC - 7540				40	5	5	1 1/2 CGF	2 CKF
CVC - 7550				50	5	7 1/2	1 1/2 CGF	2 CKHF
CVC - 7560				60	7 1/2	10	1 1/2 CGF	2 CKHF
CVC - 7570				70	10	15	1 1/2 CGF	2 CKHF
CVC - 7580				80	10	--	1 1/2 CGF	--
CVC - 10010				Hp 717 EDR 100,000 BTUH 24,700	150	120	10	1 1/2
CVC - 10015	15	2	1 1/2				1 1/2 CGF	2 CGF
CVC - 10020	20	3	2				2 CGF	2 CGF
CVC - 10030	30	5	3				2 CGF	2 CKF
CVC - 10040	40	7 1/2	5				2 CGF	2 CKF
CVC - 10050	50	7 1/2	7 1/2				2 CGF	2 CKHF
CVC - 10060	60	10	10				2 CGF	2 CKHF
CVC - 10070	70	10	15				1 1/2 CGF	2 CKHF
CVC - 10080	80	10	--				1 1/2 CGF	--

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

CONDENSATE RETURN UNITS SERIES CVC

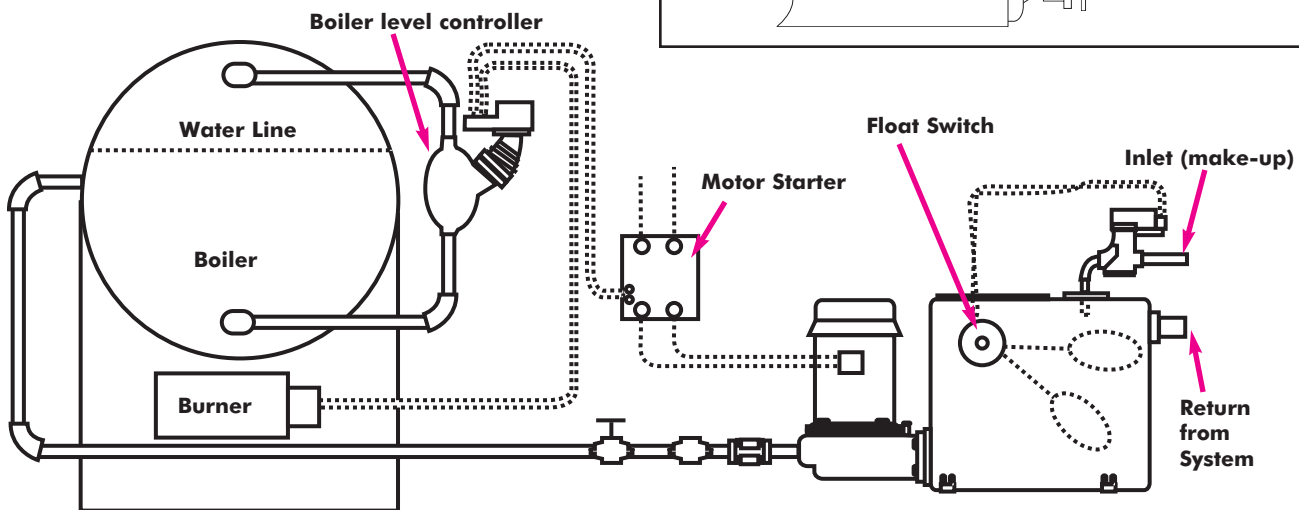
The condensate pump is operated by a float switch in the condensate tank. As water is returned from the system, it is pumped to the boiler by the condensate pump.



BOILER FEED UNITS 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.



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 $\frac{3}{16}$ " black steel or cast iron with 2" vent, $\frac{3}{4}$ " 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 $\frac{1}{4}$ " black steel with 2" vent, $\frac{3}{4}$ " 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 $\frac{1}{4}$ " black steel with 2" vent, $\frac{3}{4}$ " 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.
- $\frac{3}{4}$ " 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.



IDENTIFICATION/TAG: _____

BILL OF MATERIALS:

CONDENSATE RETURN UNITS SERIES CVC AND/OR BOILER FEED UNITS SERIES BFC & BFCE

1) PUMP(S)

A single-stage closed coupled cast iron, bronze fitted casing, leak proof mechanical shaft seal, stainless steel large diameter corrosion resistant shaft, and bronze casing wearing. These pump(s) requirement allows handling of 250°F condensate without flashing and cavitation. The pump(s) is provided with an axial flow impeller being enclosed in a cast bronze construction. The pump(s) cast iron flanged volute has an internal cast iron baffle preventing pre-rotation of the condensate. The entire rotating assembly can be removed without disturbing the discharge or return piping.

PUMP(S) SELECTION	
CVC MODEL # _____	BFC MODEL # _____
SIMPLEX (S-CVC) <input type="checkbox"/>	SIMPLEX (S-BFC) <input type="checkbox"/>
DUPLEX (D-CVC) <input type="checkbox"/>	SIMPLEX (S-BFCE) <input type="checkbox"/>
	DUPLEX (D-BFCE) <input type="checkbox"/>
	DUPLEX (D-BFC) <input type="checkbox"/>
PUMP CAPACITY: _____ USGPM AT _____ PSI	
1) CENTRIFUGAL PUMP(S) <input type="checkbox"/>	SINGLE STAGE <input type="checkbox"/> MULTI-STAGE <input type="checkbox"/>
2) CLOSED COUPLED <input type="checkbox"/>	

2) MOTOR(S)

Open-drip proof motor, standard NEMA construction. Motor bearings are sealed and factory greased for extra-long trouble-free operation. Single phase fractional Hp with dual voltage motors include built-in thermal overload protection. Motors are standard at 3450 RPM.

MOTOR(S) SELECTION	
MOTOR(S) Hp _____	ODP <input type="checkbox"/> TEFC <input type="checkbox"/> XP <input type="checkbox"/>
60Hz SPEED: 3450 RPM <input type="checkbox"/>	1750 RPM <input type="checkbox"/>
VOLTAGE: 115V <input type="checkbox"/> 208V <input type="checkbox"/> 230V <input type="checkbox"/> 460V <input type="checkbox"/> 575V <input type="checkbox"/>	
1 PHASE <input type="checkbox"/>	3 PHASE <input type="checkbox"/>

3) RECEIVER

Receiver inlet, pump(s), vent and drain connections.

RECEIVER SELECTION	CONDENSATE (CVC) SELECTION	BOILER FEED (BFC OR BFCE) SELECTION
CAPACITY _____ GALLONS	<input type="checkbox"/> 15 GALLONS	<input type="checkbox"/> 50 GALLONS
TYPE: ASME <input type="checkbox"/> NON-ASME <input type="checkbox"/>	<input type="checkbox"/> 25 GALLONS	<input type="checkbox"/> 70 GALLONS
SHAPE: CYLINDRICAL <input type="checkbox"/> RECTANGULAR <input type="checkbox"/>	<input type="checkbox"/> 35 GALLONS	<input type="checkbox"/> 120 GALLONS
CONSTRUCTION: STEEL <input type="checkbox"/>	<input type="checkbox"/> 45 GALLONS	<input type="checkbox"/> 210 GALLONS
STEEL W/DURATHERM LINING <input type="checkbox"/>	<input type="checkbox"/> 70 GALLONS	<input type="checkbox"/> 300 GALLONS
STAINLESS STEEL <input type="checkbox"/>	<input type="checkbox"/> 120 GALLONS	
STEEL W/GALVANIZING <input type="checkbox"/>		
CAST IRON (RECTANGULAR ONLY) <input type="checkbox"/>		
VENT CONNECTION _____ SIZE: _____"		
BLIND PLATE ON SIMPLEX UNITS FOR FUTURE EXPANSION <input type="checkbox"/>		
SHUT OFF VALVE BETWEEN RECEIVER AND PUMP SUCTION (OPTIONAL) <input type="checkbox"/>		
NON STANDARD RECEIVER <input type="checkbox"/> SIZE: _____ GALLONS		
20 YEARS WARRANTY (OPTIONAL) <input type="checkbox"/>		

IDENTIFICATION/TAG: _____

4) RECEIVER ACCESSORIES

Float switch(es) and alternator connections for complete flexibility

ACCESSORIES SELECTION	
THERMOMETER: RANGE 40°F TO 300°F	<input type="checkbox"/> STRAIGHT <input type="checkbox"/> ANGLE <input type="checkbox"/> DIAL <input type="checkbox"/>
GAUGE GLASS ASSEMBLY	<input type="checkbox"/> (STANDARD EXCEPT: 10 AND 15 GALLONS RECEIVERS)
ADDITIONAL RECEIVER TAPPINGS	<input type="checkbox"/> SIZE: _____"
ONE FLOAT SWITCH (SIMPLEX UNITS)	<input type="checkbox"/> TWO FLOAT SWITCHES (DUPLEX UNITS) <input type="checkbox"/>

5) MECHANICAL CONTROLS

FOR CVC UNITS:

Automatic operation is provided by an internal mounted enclosed adjustable float switch assembly, for simplex (S-CVC) or two float switches or control panel with electrical alternator for duplex (D-CVC) operation.

The alternator shall: 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.

SELECTION	
FOR SIMPLEX UNITS: ONE FLOAT SWITCH	<input type="checkbox"/>
FOR DUPLEX UNITS: TWO FLOAT SWITCHES	<input type="checkbox"/>
CONTROL PANEL W/ELECTRICAL ALTERNATOR	<input type="checkbox"/>
NEMA _____ PANEL	<input type="checkbox"/> HIGH LEVEL ALARM WITH FLOAT <input type="checkbox"/>
TANK ALERT MOUNTED	<input type="checkbox"/> UNMOUNTED <input type="checkbox"/> BY OTHERS <input type="checkbox"/>
ISOLATION VALVE(S) (OPTIONAL) IF REQUIRED	<input type="checkbox"/> SIZE: _____"
DISCHARGE PRESSURE GAUGE(S) WITH MINI BALL VALVE(S) (OPTIONAL)	<input type="checkbox"/>
INLET STRAINER FOR TANK RETURN CONNECTION (LOOSE)	<input type="checkbox"/> SIZE: _____"
INLET BASKET STRAINER (CAST IRON RECEIVER)	<input type="checkbox"/> SIZE: _____"

FOR BFC OR BFCE UNITS:

Automatic operation is provided by an internal mounted enclosed adjustable float switch operated by an internal make-up valve for boiler feed units.

SELECTION	
FOR SIMPLEX UNITS: ONE FLOAT SWITCH	<input type="checkbox"/>
FOR DUPLEX UNITS: TWO FLOAT SWITCHES	<input type="checkbox"/>
OR CONTROL PANEL W/ELECTRICAL ALTERNATOR	<input type="checkbox"/>
NEMA _____ PANEL	<input type="checkbox"/> HIGH LEVEL ALARM WITH FLOAT <input type="checkbox"/>
TANK ALERT MOUNTED	<input type="checkbox"/> UNMOUNTED <input type="checkbox"/> BY OTHERS <input type="checkbox"/>
ISOLATION VALVE(S) (OPTIONAL) IF REQUIRED	<input type="checkbox"/> SIZE: _____"
DISCHARGE PRESSURE GAUGE(S) WITH MINI BALL VALVE(S) (OPTIONAL)	<input type="checkbox"/>
PRESSURE GAUGE(S): DRY	<input type="checkbox"/> LIQUID FILLED <input type="checkbox"/>
INLET STRAINER FOR TANK RETURN CONNECTION (LOOSE)	<input type="checkbox"/> SIZE: _____"
INLET Y STRAINER	<input type="checkbox"/> SIZE: _____"
INLET BASKET STRAINER	<input type="checkbox"/> SIZE: _____"
FLOAT OPERATED INTERNAL MAKE-UP VALVE	<input type="checkbox"/>
GAUGE GLASS AND SHUT-OFF VALVES	<input type="checkbox"/> (ON BFC 15 TO 200 GALLONS RECEIVERS)

6) ELECTRICAL CONTROLS

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



OPTIONAL MODIFICATIONS AVAILABLE FOR CONDENSATE (CVC) AND BOILER FEED (BFC OR BFCE) UNITS

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.**

FF

FLO FAB



**Manufacturer of Pumps, Tanks, Heat Exchangers & Accessories
for HVAC Market After-Sales Parts and Services**

www.flofab.com

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LAKE WORTH,
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