- Rated for 200°F (93°C) Condensate
- Carbon Graphite Bearings for improved abrasion and wear resistance
- Simplex or Duplex configuration
- Designed for installations with low or below grade return lines
- 36" or 48" Deep Receivers
- Carbon/Ceramic Mechanical Seal designed for 250°F (121°C)
- Replace Mechanical Seal without removing pump from receiver
- Heavy Duty 2-pole float switch
- Vacuum tight construction available



Domestic[®] Pump Series CU[™] Underground Condensate Units Series CMU[™] Boiler Feed Units



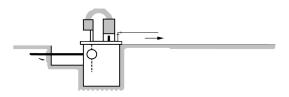
ALL PUMPS ARE 3500 RPM

	Pump Capacity (gpm)	Discharge Pressure (psig)	Std. Pump Motor H.P.	Discharge Size (inches)	С	ONDENSATE UNIT	BOILER FEED UNITS		
Capacity Sq. Ft. EDR					Model No. With Std. Pumps	Receiver Size Simplex	Receiver Size Duplex	Model No. with Std. Pumps	Receiver Size
1,000 to 10,000	10	15 20 25 30 40 50	1/ ₂ 1/ ₂ 1/ ₂ 3/ ₄ 1 11/ ₂	111/2	101.5CU 102CU 102.5CU 103CU 104CU 105CU	18" dia. x 36" deep	24" dia. x 36" deep	101.5CMU 102CMU 102.5CMU 103CMU 104CMU 105CMU	30" dia. x 48" deep
15,000	15	15 20 25 30 40 50	1/ ₂ 1/ ₂ 3/ ₄ 3/ ₄ 1 11/ ₂	11/2	151.5CU 152CU 152.5CU 153CU 154CU 155CU	18" dia. x 36" deep	24" dia. x 36" deep	151.5CMU 152CMU 152.5CMU 153CMU 154CMU 155CMU	30" dia. x 48" deep
20,000	20	15 20 25 30 40 50	1/ ₂ 1/ ₂ 3/ ₄ 1 11/ ₂ 2	11/2	201.5CU 202CU 202.5CU 203CU 204CU 205CU	18" dia. x 36" deep	24" dia. x 36" deep	201.5CMU 202CMU 202.5CMU 203CMU 204CMU 205CMU	36" dia. x 48" deep
25,000	25	15 20 25 30 40 50	1/ ₂ 1/ ₂ 3/ ₄ 1 11/ ₂	11/2	251.5CU 252CU 252.5CU 253CU 254CU 255CU	18" dia. x 36" deep	24" dia. x 36" deep	251.5CMU 252CMU 252.5CMU 253CMU 254CMU 255CMU	36" dia. x 48" deep
30,000	30	15 20 25 30 40 50	1/ ₂ 3/ ₄ 3/ ₄ 1 11/ ₂ 2	11/2	301.5CU 302CU 302.5CU 303CU 304CU 305CU	24" dia. x 36" deep	24" dia. x 36" deep	301.5CMU 302CMU 302.5CMU 303CMU 304CMU 305CMU	42" dia. x 48" deep
40,000	40	15 20 25 30 40	3/ ₄ 3/ ₄ 1 1 ¹ / ₂ 2	11/2	401.5CU 402CU 402.5CU 403CU 404CU	24" dia. x 36" deep	24" dia. x 36" deep	401.5CMU 402CMU 402.5CMU 403CMU 404CMU	48" dia. x 48" deep
50,000	50	15 20 25 30	³ / ₄ 1 1 ¹ / ₂ 1 ¹ / ₂	11/2	501.5CU 502CU 502.5CU 503CU	30" dia. x 36" deep	30" dia. x 36" deep	Not Available	
70,000	70	15 20 25 30	1½ 1½ 2 2	2	701.5CU 702CU 702.5CU 703CU	36" dia. x 36" deep	36" dia. x 36" deep	Not Available	
90,000	90	15 20 25 30	1½ 2 3 3	2	901.5CU 902CU 902.5CU 903CU	36" dia. x 36" deep	36" dia. x 36" deep	Not Available	

Receiver Size	Material Receiver Warranty		Receiver Size	Material	Receiver Warranty
18X36	Epoxy Coated Steel	1year installation /18 months from date of ship	24X48	Epoxy Coated Steel	1year installation /18 months from date of ship
24X36	Cast Iron	t Iron 20 years*		Epoxy Coated Steel	1year installation /18 months from date of ship
30X36	Epoxy Coated Steel	1year installation /18 months from date of ship	36X48	Epoxy Coated Steel	1year installation /18 months from date of ship
36X36	Epoxy Coated Steel	1year installation /18 months from date of ship	42X48	Epoxy Coated Steel	1year installation /18 months from date of ship
-	-	-	48X48	Epoxy Coated Steel	1year installation /18 months from date of ship

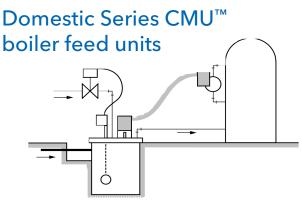
^{*} Warranty against failure due to corrosion.

Domestic Series CU™ condensate units



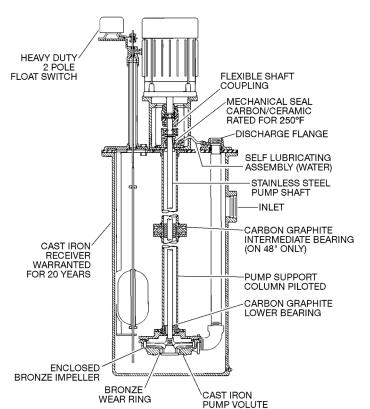
These units consist of a cast iron or epoxy coated steel receiver, one or two pumps, and automatic float control. The pumps operate according to water level change in the receiver. Standard equipment is a heavy duty two-pole float switch on single units. A mechanical alternator is provided on duplex condensate pumps. On single phase pumps through two horsepower, the switch is factory wired.

In the selection table, you'll find that condensate pumps are pre-selected to deliver 1 gpm per 1000 EDR according to modern practice. This is twice the condensing rate and is the recommended rating.



Underground boiler feed units consist of a cast iron or epoxy coated steel receiver, one or two pumps, an automatic make-up valve, and overflow connection. A boiler feed unit is controlled from the water level in the boiler that it serves, not the level in its own receiver, so it must have a make-up valve in case there is no condensate present when the boiler needs water. Because the boiler feed unit must absorb surges in rate of condensate return, its receiver must be larger than that of a condensate unit; underground boiler feed units are pre-selected based on ten minutes storage. Pump controls are available as options.

The make-up valve is a float-switch-operated solenoid valve, with cushioned closing and epoxy resin encapsulated coil. Makeup water is added into the receiver to "temper" it, minimizing the danger of thermal shock to the boiler.



Note: TEFC and motors are available. A horsepower increase is not necessary using TEFC Motors.

STANDARD UNIT FEATURES:

- Receivers for condensate units are preselected for 1 minute net storage. Receivers for boiler feed units are pre-selected for 10 minute net storage.
- Steel Cover Plates, Duplex cover plates are split on 24" dia., 30" dia. and larger have individual pump mounting plates.
- Centrifugal Pumps, Series CU & CMU have standard centrifugal pumps. All pumps are sized 2 times system return rate.
- Level Control, Single condensate units have a heavy duty float switch. Duplex condensate units have a mechanical alternator to sequence pumps and provide automatic stand by on high level. Boiler feed units have a float switch and solenoid valve with Y strainer to add make up water on low level.

OPTIONAL FEATURES AVAILABLE:

- Stainless steel receiver.
- Inlet Basket Strainers; shipped separately; must be installed in pit area to provide servicing.
- Vacuum Tight Construction. Units for vacuum service have special designed cover plates and use displacer type level controls. Mechanical alternator not available on vacuum tight units.
- Duplex Condensate units may be furnished with 2 float switches in lieu of mechanical alternator. Lead-Lag selector switches and electric alternator require 2 float switches.
- Control Panels, see page 4 for description.

ORDERING INSTRUCTIONS

Specify model number, single or duplex, phase, operating voltage, special features. On boiler feed units state number of boilers, type boiler control and describe function of control desired. See catalog Boiler Feed section for boiler piping diagrams. 3

OPTIONAL ELECTRIC CONTROLS

Consolitrol Control Cabinets are available to comply with NEMA specifications. Panels for underground units are furnished separately for wall mounting only.

Description of Optional Panel Components:

- Magnetic Starters must be used on all 3 phase motors and single phase motors 3 HP and larger.
- Disconnect Switches and Circuit Breakers. Either fuses or a circuit breaker is required ahead of the starter to protect against short circuits. A disconnect switch or circuit breaker also provides a means of shutting off power for service.
- Selector Switches. "Auto-off-Hand" selector switches provide a means of shutting off pumps and a means of testing in the "Hand" position. "Off-Hand-Lead-Lag" selector switches may be furnished on duplex units with 2 float switches to provide manual alternation. Use only when magnetic starters are provided.
- Electric Alternator may be furnished on duplex units to provide automatic sequencing of lead pump. Use only when magnetic starters are provided and only with 2 float switches.

- Transformers are required to reduce control voltage when power supply exceeds 230 volts. Transformers are recommended when voltage exceeds 130 volts. Refer to local codes for requirements.
- Power Control Switching Relay is recommended when individual pump disconnect switches are specified and a control transformer is required. This relay maintains control power in the event pump #1's disconnect is turned off or pump #1 fails. In this event the control power will be automatically supplied by pump #2.
- Pilot Lights. Pump running pilot lights are available to indicate pump operation.
- An Audible Alarm to indicate high water level may be furnished on single units or in conjunction with a mechanical alternator on duplex units. A separate level control should be furnished to actuate alarm.

Specified panel Components to be furnished with unit at extra cost.

NEMA 2 - U.L. Listed Control Panels are the standard option when specified.

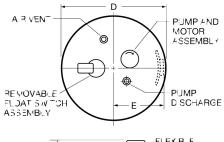
ROUGHING IN DIMENSIONS

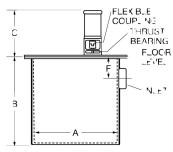
not to be used for installation; certified dimensions on request.

R	ECI		RECEIVER CAPACITY-GALS.				
Α	В	D	Е	F	STANDARD INLET	FLOAT	TOTAL
18	36	22	11	9	3	16	40
24	36	28	14	9	4	25	71
30	36	34	17	9	4	40	110
36	36	40	20	9	4	57	158
	A 18 24 30	A B 18 36 24 36 30 36	A B D 18 36 22 24 36 28 30 36 34	(INC) A B D E 18 36 22 11 24 36 28 14 30 36 34 17	RECEIVER DIMEN (INCHES) A B D E F 18 36 22 11 9 24 36 28 14 9 30 36 34 17 9 36 36 40 20 9	A B D E F STANDARD INLET 18 36 22 11 9 3 24 36 28 14 9 4 30 36 34 17 9 4	CAPACIT CAPA

R	ECI		R D		EIVER FY-GALS.		
Α	В	D	Е	F	STANDARD INLET	FLOAT	TOTAL
24	48	28	14	9	4	49	94
30	48	34	17	9	4	77	146
36	48	40	20	9	4	110	211
42	48	46	23	9	6	150	288
48	48	52	26	9	6	196	375

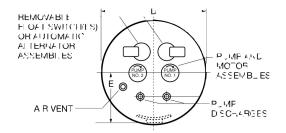
Simplex

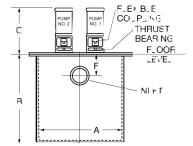




ALLOW B + C ABOVE FLOOR TO REMOVE PUMP & MOTOR ASSEMBLY

Duplex





ALLOW B + C ABOVE FLOOR TO REMOVE PUMP & MOTOR ASSEMBLY

MOTOR HP	3500 RPM	¹/₂ hp	³/ ₄ hp	1 hp	11/2 hp	2 hp	3hp
DIMENSION	C (inches)	16	17	17	19	19	19



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