

- Robust cylindrical steel receiver with dished heads for structural integrity with minimum 3/16" thickness.
- Minimum receiver elevation for simplified shipping and installation and lowest possible inlet height.
- Wide range of receiver sizes for most efficient operation of your system.
- "Package" construction yields total responsibility. Factory assembled and tested as a complete package.
- B35 2ft. NPSH pumps or Centriflo® centrifugal condensate pumps. Vertical mount design puts motors above dirt and water, and saves floor space. All pumps feature enclosed bronze impellers and renewable wearing rings.
- Handles condensate up to 210°F at sea level, up to 550 gpm and 75 psig discharge pressures with floor level horizontal steel receivers.
- Handles condensate up to 212°F at sea level, up to 550 gpm and 175 psig discharge pressures with elevated horizontal steel receivers.



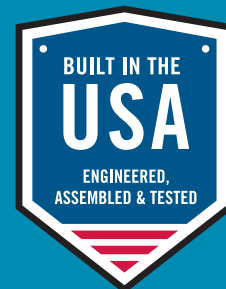
SERIES CED



SERIES CHD

Domestic® Pump Series CHD™ and CED™ Condensate Units

DUPLEX 30,000 THRU 555,000 SQ. FT. EDR
7417 THRU 136,517 LB./HR.



DOMESTIC® SERIES CHD & CED CONDENSATE UNITS

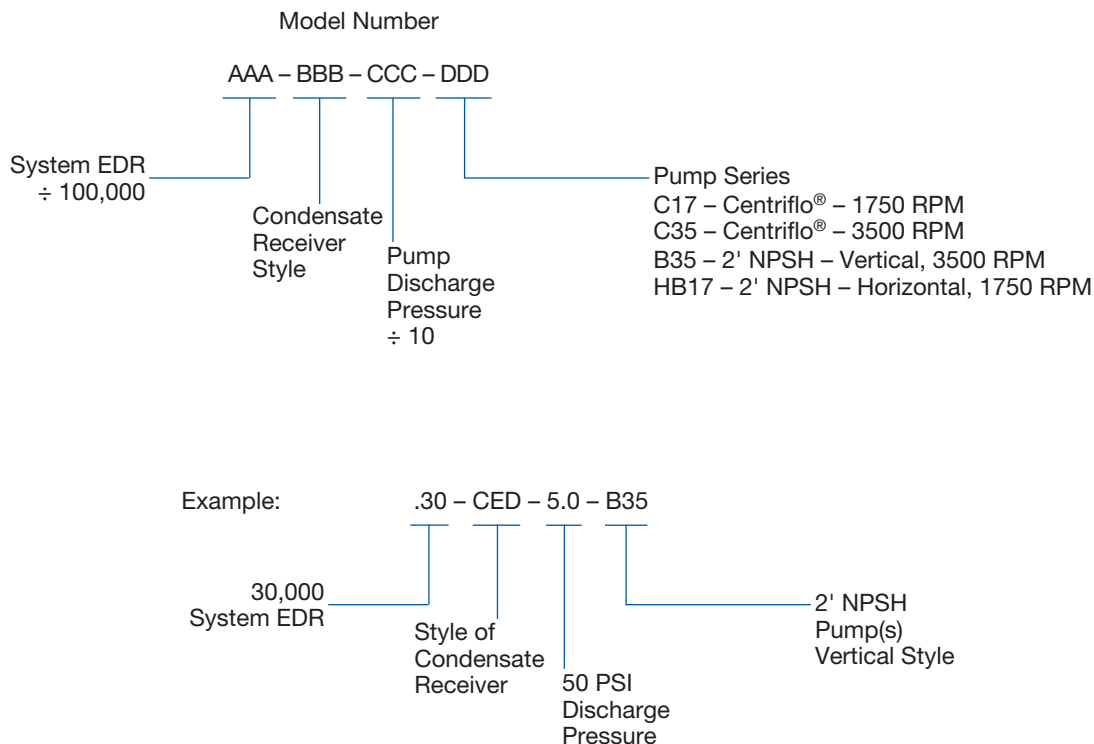
Series CED units offer flexible and economical solutions for condensate handling requirements in schools, hospitals and many other applications.

The receiver is fabricated of black steel and is available with hot dipped galvanizing or epoxy lining. A wide range of receiver sizes guarantees an efficient match of unit to system, and depending on receiver size, as many as eight condensate pumps can be mounted on the receiver.

Series B35 2' NPSH pumps are standard equipment. These 2 ft. NPSH centrifugal pumps are rugged and reliable and ensure operation at boiling temperatures when used with elevated units.

For those situations where initial cost is an overriding factor, CED units can be furnished with economical Centriflo® single stage pumps.

MODEL DESIGNATION



DOMESTIC® SERIES CHD & CED CONDENSATE UNITS

STANDARD UNIT FEATURES:

- Steel receiver, minimum 3/16" thickness with dished heads and inlet cascade baffle. Receiver sized for 5 minute net storage.
- Units are elevated 30 inches on a fabricated steel base with suction piping and isolation valves.
- Gauge glass with shut-off valve
- Dial thermometer
- Float switch(es)
- Centrifugal 2' NPSH B35 pumps with open drip proof motors. Pump capacity sized for two times the system return rate.

OPTIONAL EQUIPMENT AS SPECIFIED:

- Centriflo® centrifugal pumps; Series C17-1750 RPM or Series C35-3500 RPM
- Inlet basket strainer
- Manhole
- NEMA 2 – U.L. Listed Control Panel
- Mechanical or electrical alternation
- TEFC motors and controls
- Hot dip galvanizing or epoxy lining
- Discharge pressure gauges
- High or low water alarms and required controls

DOMESTIC® PUMP SERIES CHD & CED SELECTION DATA

Total Sq. Ft. EDR	** Pump Cap. GPM	Pump Disch. Press. PSIG	Centrifugal Pump Motor HP	Condensate to 200 °F	Condensate to 205 °F	Series B Pump Motor HP	Condensate to 210 °F	Condensate to 212 °F	Rec. Size & Net Storage Cap.	Opening Sizes, (Inches)
				Series CHD Model Number	Series CED Model Number		Series CHD Model Number	Series CED Model Number		
30,000	30	20	¾	.30-CHD-2.0-C35	.30-CED-2.0-C35	¾	.30-CHD-2.0-B35	.30-CED-2.0-B35	24" x 36" 65 GAL	INLET 2½ OVERFLOW 2 VENT 2
		25	¾	.30-CHD-2.5-C35	.30-CED-2.5-C35	¾	.30-CHD-2.5-B35	.30-CED-2.5-B35		
		30	1	.30-CHD-3.0-C35	.30-CED-3.0-C35	1	.30-CHD-3.0-B35	.30-CED-3.0-B35		
		40	1½	.30-CHD-4.0-C35	.30-CED-4.0-C35	2	.30-CHD-4.0-B35	.30-CED-4.0-B35		
		50	2	.30-CHD-5.0-C35	.30-CED-5.0-C35	3	.30-CHD-5.0-B35	.30-CED-5.0-B35		
		60	3	.30-CHD-6.0-C35	.30-CED-6.0-C35	3	.30-CHD-6.0-B35	.30-CED-6.0-B35		
		75	5	.30-CHD-7.5-C35	.30-CED-7.5-C35	5	.30-CHD-7.5-B35	.30-CED-7.5-B35		
		85	-	-	-	5	.30-CHD-8.5-B35	.30-CED-8.5-B35		
		90	5	.30-CHD-9.0-C35	.30-CED-9.0-C35	-	-	-		
		100	-	-	-	7½	.30-CHD-10.0-B35	.30-CED-10.0-B35		
60,000	60	20	1½	.60-CHD-2.0-C35	.60-CED-2.0-C35	1½	.60-CHD-2.0-B35	.60-CED-2.0-B35	24" x 60" 104 GAL	INLET 3 OVERFLOW 2½ VENT 2
		25	1½	.60-CHD-2.5-C35	.60-CED-2.5-C35	2	.60-CHD-2.5-B35	.60-CED-2.5-B35		
		30	2	.60-CHD-3.0-C35	.60-CED-3.0-C35	2	.60-CHD-3.0-B35	.60-CED-3.0-B35		
		40	3	.60-CHD-4.0-C35	.60-CED-4.0-C35	3	.60-CHD-4.0-B35	.60-CED-4.0-B35		
		50	3	.60-CHD-5.0-C35	.60-CED-5.0-C35	5	.60-CHD-5.0-B35	.60-CED-5.0-B35		
		60	5	.60-CHD-6.0-C35	.60-CED-6.0-C35	5	.60-CHD-6.0-B35	.60-CED-6.0-B35		
		75	5	.60-CHD-7.5-C35	.60-CED-7.5-C35	7½	.60-CHD-7.5-B35	.60-CED-7.5-B35		
		85	-	-	-	7½	.60-CHD-8.5-B35	.60-CED-8.5-B35		
		90	7½	.60-CHD-9.0-C35	.60-CED-9.0-C35	-	-	-		
		100	-	-	-	7½	.60-CHD-10.0-B35	.60-CED-10.0-B35		
75,000	75	20	1½	.75-CHD-2.0-C35	.75-CED-2.0-C35	2	.75-CHD-2.0-B35	.75-CED-2.0-B35	30" x 48" 141 GAL	INLET 4 OVERFLOW 3 VENT 2½
		25	2	.75-CHD-2.5-C35	.75-CED-2.5-C35	2	.75-CHD-2.5-B35	.75-CED-2.5-B35		
		30	2	.75-CHD-3.0-C35	.75-CED-3.0-C35	3	.75-CHD-3.0-B35	.75-CED-3.0-B35		
		40	3	.75-CHD-4.0-C35	.75-CED-4.0-C35	5	.75-CHD-4.0-B35	.75-CED-4.0-B35		
		50	5	.75-CHD-5.0-C35	.75-CED-5.0-C35	5	.75-CHD-5.0-B35	.75-CED-5.0-B35		
		60	5	.75-CHD-6.0-C35	.75-CED-6.0-C35	7½	-	.75-CED-6.0-B35		
		75	7½	.75-CHD-7.5-C35	.75-CED-7.5-C35	10	-	.75-CED-7.5-B35		
		85	-	-	-	10	-	.75-CED-8.5-B35		
		90	7½	.75-CHD-9.0-C35	.75-CED-9.0-C35	-	-	-		
		100	-	-	-	15	-	.75-CED-10.0-B35		
112,000	112	25	3	1.12-CHD-2.5-C35	1.12-CED-2.5-C35	5	NOT AVAILABLE	1.12-CED-2.5-B35	30" x 72" 204 GAL	INLET 4 OVERFLOW 3 VENT 2½
		30	3	1.12-CHD-3.0-C35	1.12-CED-3.0-C35	5		1.12-CED-3.0-B35		
		40	5	1.12-CHD-4.0-C35	1.12-CED-4.0-C35	7½		1.12-CED-4.0-B35		
		50	5	1.12-CHD-5.0-C35	1.12-CED-5.0-C35	7½		1.12-CED-5.0-B35		
		60	7½	1.12-CHD-6.0-C35	1.12-CED-6.0-C35	10		1.12-CED-6.0-B35		
		75	10	1.12-CHD-7.5-C35	1.12-CED-7.5-C35	10		1.12-CED-7.5-B35		
150,000	150 (140 MAX WITH B35 PUMPS)	85	-	-	-	15		1.12-CED-8.5-B35		
		25	5	1.50-CHD-2.5-C35	1.50-CED-2.5-C35	-	NOT AVAILABLE	-	36" x 72" 302 GAL	INLET 4 OVERFLOW 3 VENT 2½
		30	5	1.50-CHD-3.0-C35	1.50-CED-3.0-C35	-		-		
		40	7½	1.50-CHD-4.0-C35	1.50-CED-4.0-C35	7½		1.40-CED-4.0-B35		
		50	7½	1.50-CHD-5.0-C35	1.50-CED-5.0-C35	7½		1.40-CED-5.0-B35		
		60	10	1.50-CHD-6.0-C35	1.50-CED-6.0-C35	10		1.40-CED-6.0-B35		
		75	15	1.50-CHD-7.5-C35	1.50-CED-7.5-C35	15		1.40-CED-7.5-B35		
260,000	260	85	-	-	-	15		1.40-CED-8.5-B35		
		25	7½*	2.60-CHD-2.5-C17	2.60-CED-2.5-C17	7½*	NOT AVAILABLE	2.60-CED-2.5-HB17	42" x 84" 492 GAL	INLET 6 OVERFLOW 4 VENT 4
		30	7½*	2.60-CHD-3.0-C17	2.60-CED-3.0-C17	7½*		2.60-CED-3.0-HB17		
		40	10*	2.60-CHD-4.0-C17	2.60-CED-4.0-C17	10*		2.60-CED-4.0-HB17		
		50	-	-	-	15*		2.60-CED-5.0-HB17		
340,000	340	25	7½*	3.40-CHD-2.5-C17	3.40-CED-2.5-C17	7½*	NOT AVAILABLE	3.40-CED-2.5-HB17	48" x 96" 712 GAL	INLET 6 OVERFLOW 4 VENT 4
		30	10*	3.40-CHD-3.0-C17	3.40-CED-3.0-C17	10*		3.40-CED-3.0-HB17		
		40	15*	3.40-CHD-4.0-C17	3.40-CED-4.0-C17	15*		3.40-CED-4.0-HB17		
425,000	425	25	10*	4.25-CHD-2.5-C17	4.25-CED-2.5-C17		NOT AVAILABLE	NOT AVAILABLE	48" x 120" 879 GAL	INLET 8 OVERFLOW 4 VENT 6
		30	15*	4.25-CHD-3.0-C17	4.25-CED-3.0-C17					
		40	15*	4.25-CHD-4.0-C17	4.25-CED-4.0-C17					
550,000	550	25	10*	5.50-CHD-2.5-C17	5.50-CED-2.5-C17		NOT AVAILABLE	NOT AVAILABLE	60" x 108" 1306 GAL	INLET 8 OVERFLOW 4 VENT 6
		30	15*	5.50-CHD-3.0-C17	5.50-CED-3.0-C17					

* 1750 RPM pumps. All others are 3500 RPM.
 ** Pump GPM based upon 2 times the return rate
 Consult factory for units other than shown

OPTIONAL ELECTRIC CONTROLS

Description of Optional Panel Components:

- Magnetic Starters must be used on all 3 phase motors and single phase motors over 2 HP.
- Disconnect Switches and Circuit Breakers. Either a circuit breaker or fuses are required ahead of the starters 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.
- 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.
- A Transformer is required by the National Electrical Code to reduce control voltage when power supply exceeds 250 volts. A transformer is recommended when voltage exceeds 130 volts. Refer to local codes for requirements.
- Pilot Lights – Pump running pilots are available to indicate pump operation.
- Audible Alarm – An alarm to indicate low or high water level may be furnished. A separate tank mounted level switch should be provided with an alarm.

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

Standard panels are supplied with NEMA 2 enclosures and are U.L. listed unless otherwise specified.



**U.L. Listed
Control Panel**

ROUGHING-IN DIMENSIONS Not to be used for installation. Certified Dimensions on Request.

CHD and CED Receiver sizes other than those shown are available. Consult factory.

SERIES CHD AND CED

RECEIVER SIZE**	NET STORAGE CAPACITY (U.S. GALLONS)	TOTAL RECEIVER CAPACITY	SYSTEM RATING		APPROXIMATE OVERALL DIMENSIONS				HEAD & SHELL THICKNESS
			EDR X 1000	LBS/HR STEAM	LENGTH (INCHES)	WIDTH*** (INCHES)	HEIGHT (INCHES)		
							CHD	CED	
24x36	65	77	30	7500	60	38	26 ¹ / ₂	56 ¹ / ₂	3/16
24x60	104	124	60	15000	84	38	26 ¹ / ₂	56 ¹ / ₂	
30x48	141	161	75	18750	74	44	32	62	
30x72	204	234	112	28000	100	44	32 ¹ / ₂	62 ¹ / ₂	
36x72	302	342	150	37500	102	50	38 ¹ / ₂	68	
42x84	492	542	260	65000	122	56 ¹ / ₂	44 ¹ / ₂	74	
48x96	712	805	340	85000	135 ¹ / ₂	62 ¹ / ₂	50 ¹ / ₂	80	
48x120	879	995	425	106250	159 ¹ / ₂	62 ¹ / ₂	50 ¹ / ₂	80	
60x108	1306	1424	550	137500	152	74 ¹ / ₂	62 ¹ / ₂	92	1/4

* Pump GPM based upon 2 times system rate.

** For storage other than 5 minutes, adjust receiver size accordingly.

*** Varies according to pump size; maximum dimension shown.

We value your feedback. Please take our 3 question survey at bellgossett.com/survey to let us know how we are doing.



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