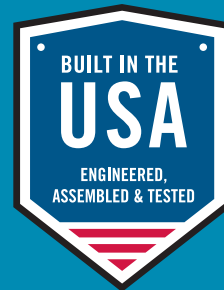


- **3 styles of 2' NPSH centrifugal boiler feed pumps**
all feature enclosed bronze impellers and renewable wearing rings. All are designed for pumping boiling water (212°F) at 2 ft NPSH
- **Minimal receiver elevation**
simplified shipping and installation
- **Total unit responsibility**
factory assembled and tested
- **2 series of Centriflo® centrifugal boiler feed pumps** for lower temperature applications below 205°F; Series C17-1750 RPM or Series C35-3500RPM pumps for economical operation
- **Wide range of receiver sizes**
for most efficient operation of your system
- **Quick selection tables**
for the most popular applications



Series CMED Boiler Feed Units for systems with high temperature returns (212°F at sea level), up to 260 gpm and up to 175 psig discharge pressures

Domestic® Pump Series CMED™ Boiler Feed Units



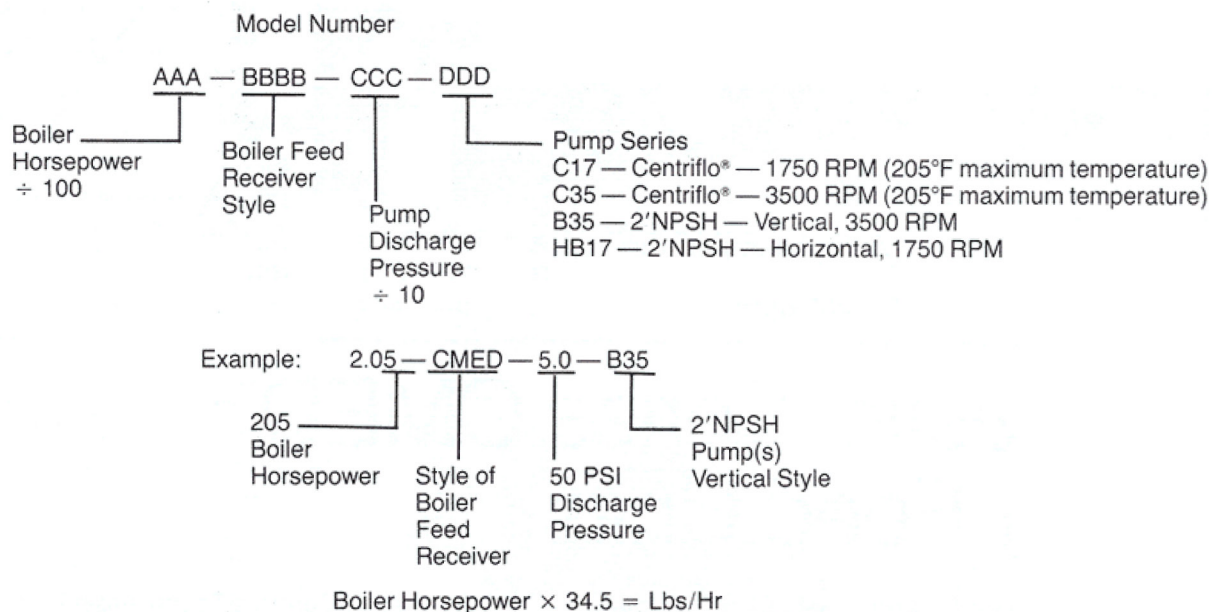
Bell & Gossett
a xylem brand

CMED™ Boiler Feed Units

CMED boiler feed units are intended for low to high pressure boilers and applications where the make-up requirements are relatively small and condensate approaches or reaches boiling temperatures. Receivers are fabricated of black steel and, as an option, can be galvanized. Elevating the receiver just thirty inches assures full capacity pumping at boiling temperatures when using any of the pumps illustrated below. Under these conditions, ordinary pumps can suffer vapor binding or cavitation, which can drastically reduce pump capacity and be quite destructive. Our family of B pumps

— B35, HB17, and DB — are engineered for a maximum required NPSH of 2 ft. which means that any of them can pump boiling water with as little as 24 inches submergence. Their centrifugal designs retain nearly original capacities after years of operation. There is no need to oversize these pumps to compensate for capacity and pressure losses. Where initial cost is an overriding factor, and performance at boiling temperatures is not required, the economical Centriflo single stage pump is available. See bulletin S410 in the Domestic catalog.

Model Designation



Domestic™ Series CMED™ Boiler Feed Units

STANDARD UNIT FEATURES:

- Steel Receiver, minimum 3/16" thickness with dished heads and inlet cascade baffle. Receiver sized for 10 minute net storage.
- Elevated on a structural steel base with suction piping and isolation valves
- Gauge Glass with shutoff valve
- Dial Thermometer
- Low level cut-off float switch
- Centrifugal 2' NPSH Series B35 pumps with open drip proof motors. Pump capacity sized for 2 times the system return rate
- Float switch, 3/4" or 1" solenoid valve and "Y" strainer water make-up assembly

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 Panels
- TEFC motors and controls
- Hot Dip Galvanizing
- Discharge Pressure Gauges
- High or low water alarms and required controls

Selection Data

Application Range

Total Boiler HP	Pump Cap. gpm	Pump Disch. Press. psig	To 205°F		To 212°F		Receiver Size*** Receiver No. & Net Storage Cap.	Opening Sizes, Inches
			Centriflo® Pump Motor Horsepower	Model Number	Series B35™ Pump Motor Horsepower	Model Number		
95	15	20	1/3	.95-CMED-2.0-C35	1/2	.95-CMED- 2.0-B35	24" x 36" 65 GAL.	INLET 2 1/2 VENT 2 OVERFLOW 2
		25	1/2	.95-CMED-2.5-C35	3/4	.95-CMED- 2.5-B35		
		30	3/4	.95-CMED-3.0-C35	3/4	.95-CMED- 3.0-B35		
		40	1	.95-CMED-4.0-C35	1 1/2	.95-CMED- 4.0-B35		
		50	1 1/2	.95-CMED-5.0-C35	2	.95-CMED- 5.0-B35		
		60	2	.95-CMED-6.0-C35	3	.95-CMED- 6.0-B35		
		75	3	.95-CMED-7.5-C35	5	.95-CMED- 7.5-B35		
		85	—	—	5	.95-CMED- 8.5-B35		
		90	5	.95-CMED-9.0-C35	—	—		
		100	—	—	5	.95-CMED-10.0-B35		
		120	—	—	5	.95-CMED-12.0-DB		
		140	—	—	5	.95-CMED-14.0-DB		
		160	—	—	5	.95-CMED-16.0-DB		
		175	—	—	7 1/2	.95-CMED-17.5-DB		
150	22	20	1/2	1.50-CMED-2.0-C35	1/2	1.50-CMED- 2.0-B35	24" x 60" 104 GAL.	INLET 2 1/2 VENT 2 OVERFLOW 2
		25	3/4	1.50-CMED-2.5-C35	3/4	1.50-CMED- 2.5-B35		
		30	3/4	1.50-CMED-3.0-C35	3/4	1.50-CMED- 3.0-B35		
		40	1 1/2	1.50-CMED-4.0-C35	1 1/2	1.50-CMED- 4.0-B35		
		50	2	1.50-CMED-5.0-C35	2	1.50-CMED- 5.0-B35		
		60	3	1.50-CMED-6.0-C35	3	1.50-CMED- 6.0-B35		
		75	3	1.50-CMED-7.5-C35	5	1.50-CMED- 7.5-B35		
		85	—	—	5	1.50-CMED- 8.5-B35		
		90	5	1.50-CMED-9.0-C35	—	—		
		100	—	—	5	1.50-CMED-10.0-B35		
		120	—	—	5	1.50-CMED-12.0-DB		
		140	—	—	5	1.50-CMED-14.0-DB		
		160	—	—	7 1/2	1.50-CMED-16.0-DB		
		175	—	—	7 1/2	1.50-CMED-17.5-DB		
205	30	20	3/4	2.05-CMED-2.0-C35	3/4	2.05-CMED- 2.0-B35	30" x 48" 141 GAL.	INLET 3 VENT 2 OVERFLOW 2 1/2
		25	3/4	2.05-CMED-2.5-C35	3/4	2.05-CMED- 2.5-B35		
		30	1	2.05-CMED-3.0-C35	1	2.05-CMED- 3.0-B35		
		40	1 1/2	2.05-CMED-4.0-C35	2	2.05-CMED- 4.0-B35		
		50	2	2.05-CMED-5.0-C35	3	2.05-CMED- 5.0-B35		
		60	3	2.05-CMED-6.0-C35	5	2.05-CMED- 6.0-B35		
		75	5	2.05-CMED-7.5-C35	5	2.05-CMED- 7.5-B35		
		85	—	—	5	2.05-CMED- 8.5-B35		
		90	5	2.05-CMED-9.0-C35	—	—		
		100	—	—	7 1/2	2.05-CMED-10.0-B35		
		120	—	—	5	2.05-CMED-12.0-DB		
		140	—	—	5	2.05-CMED-14.0-DB		
		160	—	—	7 1/2	2.05-CMED-16.0-DB		
		175	—	—	7 1/2	2.05-CMED-17.5-DB		
295	45	25	1	2.95-CMED-2.5-C35	1	2.95-CMED- 2.5-B35	30" x 72" 204 GAL.	INLET 3 VENT 2 OVERFLOW 2 1/2
		30	1 1/2	2.95-CMED-3.0-C35	1 1/2	2.95-CMED- 3.0-B35		
		40	2	2.95-CMED-4.0-C35	3	2.95-CMED- 4.0-B35		
		50	3	2.95-CMED-5.0-C35	3	2.95-CMED- 5.0-B35		
		60	3	2.95-CMED-6.0-C35	5	2.95-CMED- 6.0-B35		
		75	5	2.95-CMED-7.5-C35	5	2.95-CMED- 7.5-B35		
		85	—	—	7 1/2	2.95-CMED- 8.5-B35		
		90	5	2.95-CMED-9.0-C35	—	—		
		100	—	—	7 1/2	2.95-CMED-10.0-B35		
		120	—	—	7 1/2	2.95-CMED-12.0-DB		
		140	—	—	10	2.95-CMED-14.0-DB		
		160	—	—	15	2.95-CMED-16.0-DB		
		175	—	—	15	2.95-CMED-17.5-DB		
440	60	25	1 1/2	4.40-CMED-2.5-C35	2	4.40-CMED- 2.5-B35	36" x 72" 302 GAL.	INLET 4 VENT 2 1/2 OVERFLOW 3
		30	2	4.40-CMED-3.0-C35	2	4.40-CMED- 3.0-B35		
		40	3	4.40-CMED-4.0-C35	3	4.40-CMED- 4.0-B35		
		50	3	4.40-CMED-5.0-C35	5	4.40-CMED- 5.0-B35		
		60	5	4.40-CMED-6.0-C35	5	4.40-CMED- 6.0-B35		
		75	5	4.40-CMED-7.5-C35	7 1/2	4.40-CMED- 7.5-B35		
		85	—	—	7 1/2	4.40-CMED- 8.5-B35		
		90	7 1/2	4.40-CMED-9.0-C35	—	—		
		100	—	—	7 1/2	4.40-CMED-10.0-B35		
		120	—	—	10	4.40-CMED-12.0-DB		
		140	—	—	15	4.40-CMED-14.0-DB		
		160	—	—	15	4.40-CMED-16.0-DB		
		175	—	—	15	4.40-CMED-17.5-DB		
700	90	25	2	7.00-CMED-2.5-C35	3	7.00-CMED- 2.5-B35	42" x 84" 492 GAL.	INLET 4 VENT 2 1/2 OVERFLOW 3
		30	3	7.00-CMED-3.0-C35	3	7.00-CMED- 3.0-B35		
		40	5	7.00-CMED-4.0-C35	5	7.00-CMED- 4.0-B35		
		50	5	7.00-CMED-5.0-C35	7 1/2	7.00-CMED- 5.0-B35		
		60	7 1/2	7.00-CMED-6.0-C35	7 1/2	7.00-CMED- 6.0-B35		
		75	7 1/2	7.00-CMED-7.5-C35	10	7.00-CMED- 7.5-B35		
		85	—	—	10	7.00-CMED- 8.5-B35		
		100	—	—	15	7.00-CMED-10.0-DB		
		120	—	—	15	7.00-CMED-12.0-DB		
		140	—	—	20	7.00-CMED-14.0-DB		
		160	—	—	20	7.00-CMED-16.0-DB		
		175	—	—	20	7.00-CMED-17.5-DB		
975	150	30	5	9.75-CMED-3.0-C35	7 1/2	9.75-CMED- 3.0-B35	48" x 96" 712 GAL.	INLET 6 VENT 3 OVERFLOW 4
		40	7 1/2	9.75-CMED-4.0-C35	7 1/2	9.75-CMED- 4.0-B35		
		50	7 1/2	9.75-CMED-5.0-C35	10	9.75-CMED- 5.0-B35		
		60	10	9.75-CMED-6.0-C35	15	9.75-CMED- 6.0-B35		
		75	—	—	15	9.75-CMED- 7.5-B35		
		85	—	—	15	9.75-CMED- 8.5-B35		
		100	—	—	20	9.75-CMED-10.0-DB		
		120	—	—	20	9.75-CMED-12.0-DB		
		140	—	—	25	9.75-CMED-14.0-DB		
		160	—	—	25	9.75-CMED-16.0-DB		
1275	180	30	5*	12.75-CMED-3.0-C17	7 1/2*	12.75-CMED- 3.0-HB17	48" x 120" 879 GAL.	INLET 6 VENT 3 OVERFLOW 4
		40	7 1/2*	12.75-CMED-3.0-C17	7 1/2*	12.75-CMED- 4.0-HB17		
		50	—	—	10*	12.75-CMED- 5.0-HB17		
1895	260	30	7 1/2*	18.95-CMED-3.0-C17	7 1/2*	18.95-CMED- 3.0-HB17	60" x 108" 1306 GAL.	INLET 6 VENT 3 OVERFLOW 4
		40	7 1/2*	18.95-CMED-4.0-C17	10*	18.95-CMED- 4.0-HB17		
		50	—	—	15*	18.95-CMED- 5.0-HB17		

*1750 RPM pumps all others are 3500 RPM.

**Pump GPM based upon 2 times the Return Rate.

***For storage other than 10 minutes, adjust receiver size accordingly.



**Consolitrol® NEMA 2 U.L. Listed
Control Panels**

CONTROLS

The control panels usually furnished on CMED boiler feed units are our own "Consolitrol" dripproof enclosures (NEMA2 – U.L. Listed). Control cabinets can also be furnished to comply with other NEMA and JIC specifications. Consult your Local Bell & Gossett Representative.

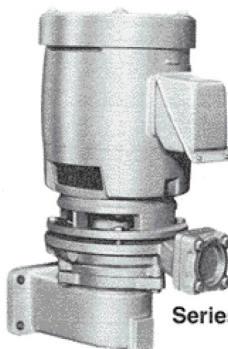
Cabinets are clearly identified by permanently affixed nameplates, showing unit serial number, wiring diagram number, power supply and control voltage. Internal cabinet wiring is numbered to match the diagram for easy identification. Finally, each cabinet is thoroughly tested prior to shipment.

For more detailed help in selecting controls, please refer to Domestic catalog section on BOILER FEED PIPING and CONTROLS.

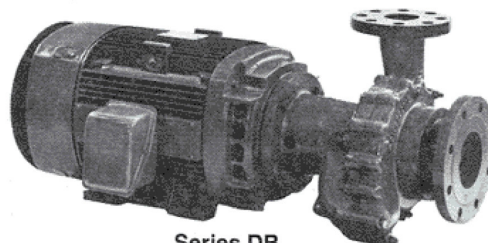
Standard boiler feed pumps for the CMED units are the B35 and HB17. These pumps are all designed and rated for 2 feet NPSH maximum, which simply means that they will all pump boiling water with 24 inches submergence, which is provided by the minimal height of the receiver on style CMED units. No more oversizing to allow for cavitation, no more tanks elevated to 10 to 15 ft. to obtain required NPSH.

All three of these pumps feature bronze-fitted construction, enclosed bronze centrifugal impellers, stainless shafts, and first stage axial flow propellers. Construction differences are shown in bulletin S420; the B35 is a 3500 rpm pump with a single centrifugal impeller. The HB17 has one centrifugal impeller, but operates at 1750 rpm: it is designed for large capacity pumping at a moderate head.

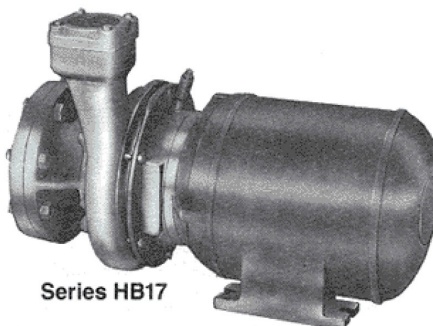
Where initial cost is an overriding factor, and performance at boiling temperatures is not required, the economical C17 or C35 Centriflo single stage pump is available. Refer to bulletin S410 for details.



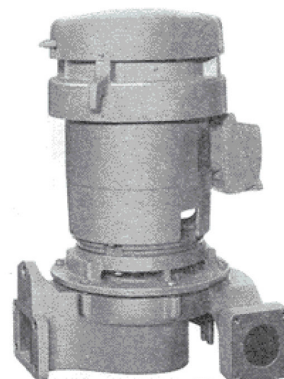
Series B35



Series DB



Series HB17



Series C17 or C35

ROUGHING-IN DIMENSIONS

Not to be used for installation
— CERTIFIED DIMENSIONS
ON REQUEST.

CMED Receiver sizes
other than those shown
are available.

Receiver Size**	Net Storage Capacity, U.S. Gallons & Receiver Number	Total Receiver Capacity	System Rating			Suggested Pump gpm	Approximate Overall Dimensions				Head & Shell Thickness
			Total Boiler HP	EDR X 1000	lbs/hr steam		Length Inches	Width*** Inches	Height Inches		
24 x 36	65	77	95	13	3200	15	62	39	67½	3/16	
24 x 60	104	124	150	21	5150	22	86	39	67½		
30 x 48	141	161	205	28	6975	30	73	43	73½		
30 x 72	204	234	295	40	10100	45	97	45	73½		
36 x 72	302	342	440	60	14950	60	102	52	79½		
42 x 84	492	542	715	98	24325	90	116	58	85½		
48 x 96	712	805	1030	142	35225	150	147½	63	91½		
48 x 120	879	995	1275	176	43475	180	171½	63	91½	1/4	
60 x 108	1306	1424	1895	261	64600	260	152	71	92		
60 x 144	1697	1854	2460	340	83925	340	188	71	92		

* Pump GPM based upon 2 times system rate.

** For storage other than 10 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.

xylem
Let's Solve Water

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