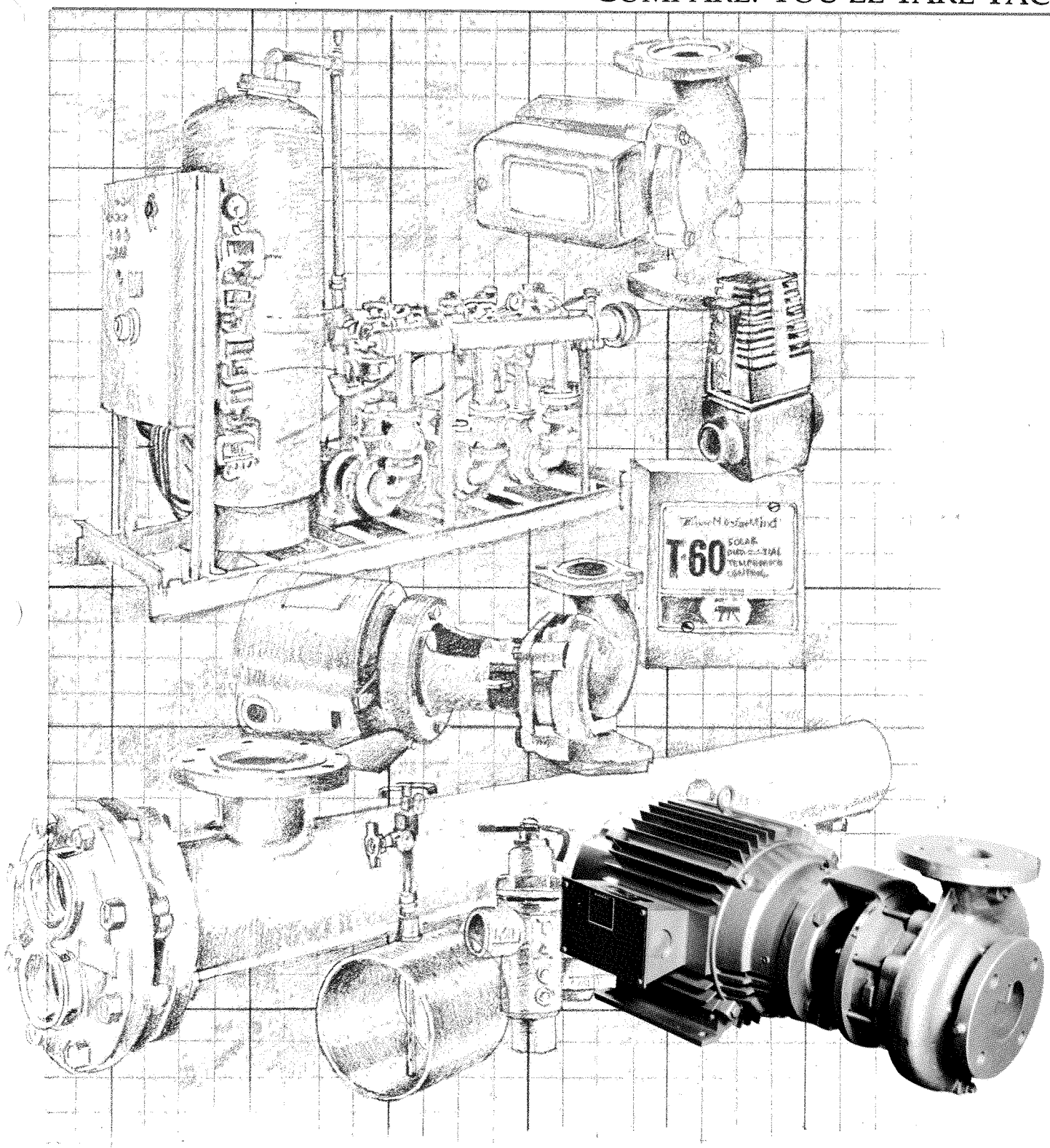
Taco

COMPARE. YOU'LL TAKE TACO.

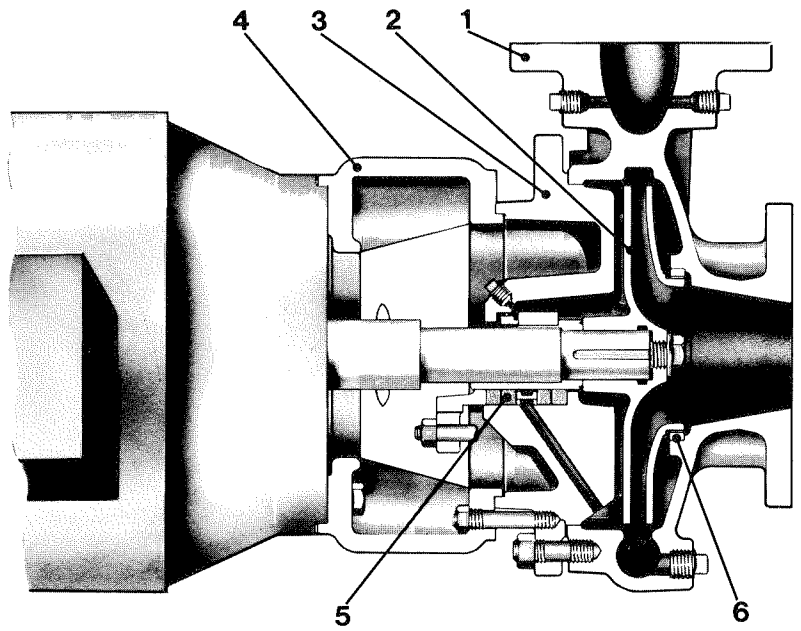


"CM" CLOSE-COUPLED END SUCTION PUMP

CATALOG 300-2.3

"CM" SERIES CLOSE-COUPLED PUMPS

HEAVY DUTY MODEL Heavy duty industrial design using NEMA "C" face mounted motors. Bearings are isolated from temperature effect of system fluid.



FEATURES

1. Cast iron casing. Flow straightener vane in inlet. Center line discharge provides self venting casing, reduces piping strain and alignment problems and simplifies plant layout.

2. Advanced impeller design, with Francis vanes as standard on most sizes, provides excellent NPSH/Discharge Head combination. Hydraulically balanced by back vanes or, on larger pumps, by back wear ring and balancing holes.

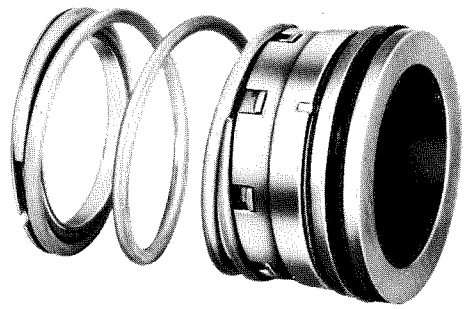
3. Back-pull-out facility permits removal of motor, motor adapters, seal and impeller without disturbing pipe connections.

4. Nine motor adapters cover all pump and motor combinations. Standard NEMA pump motors.

5. Shaft sealing by mechanical seal complete with bronze shaft sleeve is standard. Alternatively by soft packed gland with lantern ring and stainless steel shaft sleeve. Variations available to suit temperature and liquid.

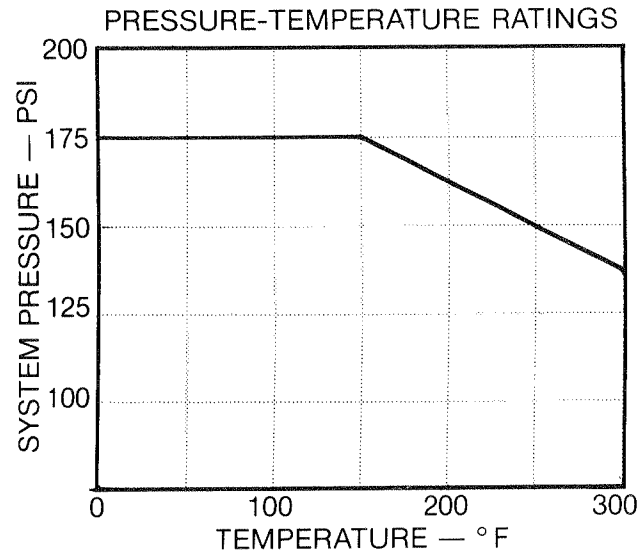
6. Replaceable wear rings are standard in all casings and in back covers of larger pumps.

SEALS



"CM" Series pumps are available with a wide variety of seal face materials to meet most system conditions. Standard seals have Ni-resist seal with carbon washer. Tungsten carbide is available for high temperature or contaminated conditions, and ceramic is available for fresh water applications. Optional external seal flush line available on all models.

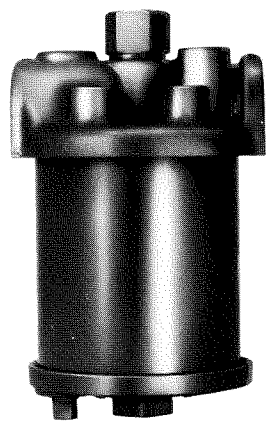
PRESSURE TEMPERATURE RATINGS



MATERIALS OF CONSTRUCTION

Description	Bronze Fitted	All Iron
Wetted Parts	Cast Iron ASTM A48-GR35	Cast Iron ASTM A48-GR35
Impeller	Bronze ASTM B584-C836	Cast Iron ASTM A48-GR35
Wear Ring	Bronze ASTM B584-C836	Cast Iron ASTM A48-GR35
Shaft Sleeve	Bronze ASTM B584-C836	Stainless Steel AISI 420

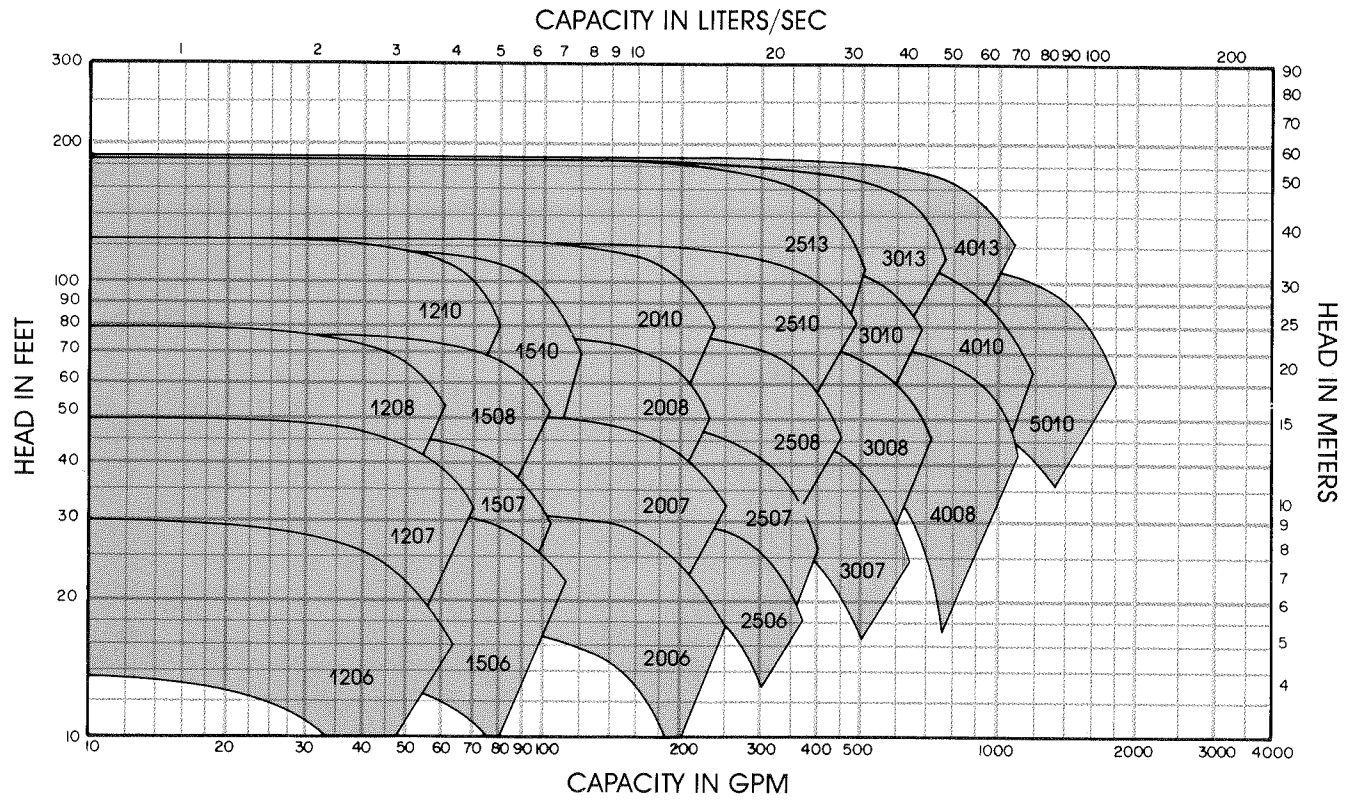
FILTERS AND SEPARATORS



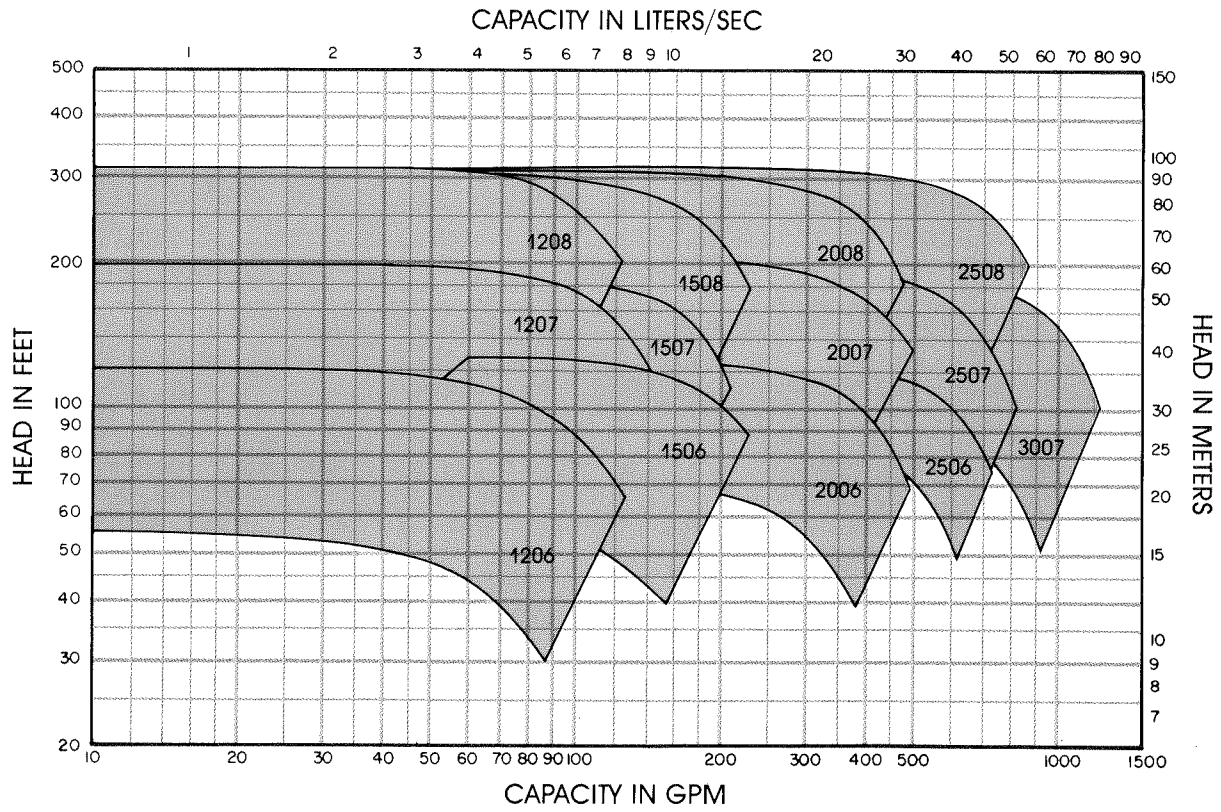
"CM" Series pumps are available with a 5 micron Cuno®* seal flush line filter for low head pumps — below 50 ft. TDH or a John Crane™ cyclone sediment separator for high head pumps — above 50 ft. TDH. Filter or separator protect the mechanical seal from damage due to system contamination.

*Cuno is a registered trademark of the AMF Corporation.

"CM" SERIES PERFORMANCE FIELD 1750 RPM

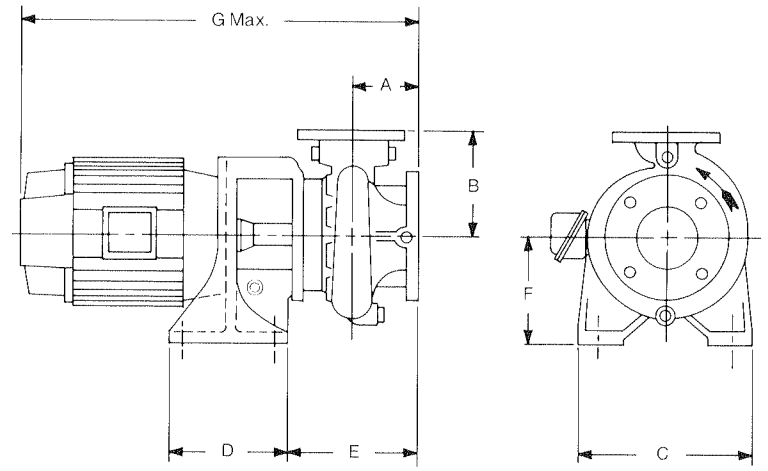


PERFORMANCE FIELD 3450 RPM



"CM" SERIES PUMP DIMENSIONS

FEET ON ADAPTER

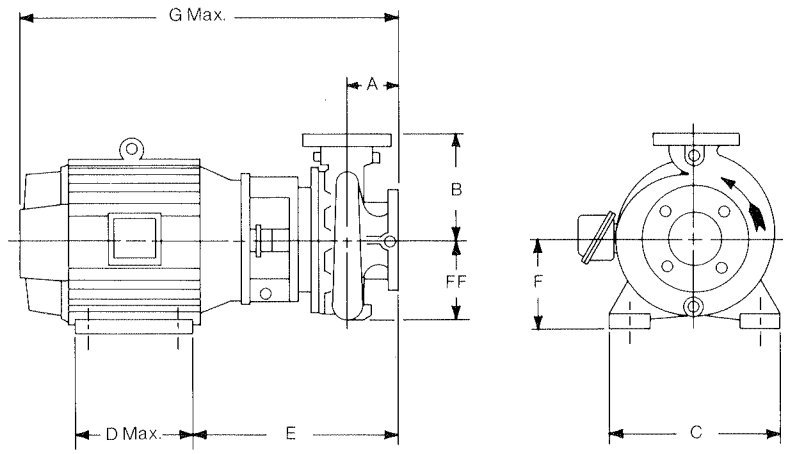


Model No.	Flg. Conn. Suct. x Disch.	HP @ 1750 RPM	HP @ 3450 RPM	A	B	C	D	E	F	G Max.
1206	2 x 1¼	1	2, 3, 5	2 15/16	5⅜	10	7	6¾	6 9/16	23⅞
1207	2 x 1¼	1, 1½	3, 5, 7½	2 15/16	6⅛	10	7	6¾	6 9/16	23⅞
1208	2 x 1¼	1, 1½, 2, 3	7½	2 15/16	6 15/16	11	7	7½	7 3/32	23⅞
1210	2 x 1¼	3, 5	—	3¾	8 11/16	11	7	8 5/16	7 3/32	24 1/16
1506	2½ x 1½	1, 1½	3, 5, 7½	2 15/16	5 5/16	10	7	6¾	6 9/16	23⅞
1507	2½ x 1½	1, 1½, 2	5, 7½	2 15/16	6⅛	10	7	6¾	6 9/16	23⅞
1508	2½ x 1½	1½, 2, 3	—	3¾	6⅞	11	7	8 5/16	7 3/32	24 1/16
1510	2½ x 1½	5	—	3¾	8 11/16	11	7	8 5/16	7 3/32	24 1/16
2006	2½ x 2	1, 1½, 2	5, 7½	3¾	6⅛	10	7	7½	6 9/16	24 1/16
2007	2½ x 2	1½, 2, 3, 5	—	3¾	6⅞	11	7	8 5/16	7 3/32	24 1/16
2008	2½ x 2	2, 3, 5	—	3¾	7 11/16	11	7	8 5/16	7 3/32	24 1/16
2010	2½ x 2	5	—	3¾	8 11/16	11	7	8 5/16	7 3/32	24 1/16
2506	3 x 2½	1½, 2, 3	—	3¾	6⅞	10	7	7½	6 9/16	24 1/16
2507	3 x 2½	1½, 2, 3, 5	—	3¾	7 11/16	11	7	8 5/16	7 3/32	24 1/16
2508	3 x 2½	5	—	3¾	8 11/16	11	7	8 5/16	7 3/32	24 1/16
3007	4 x 3	3, 5	—	4¾	8 11/16	11	7	9 5/16	7 3/32	25 1/16

Suction and Discharge gauge connections ¼" NPT.
Allow 6" withdrawal clearance.

"CM" SERIES PUMP DIMENSIONS

FEET ON MOTOR

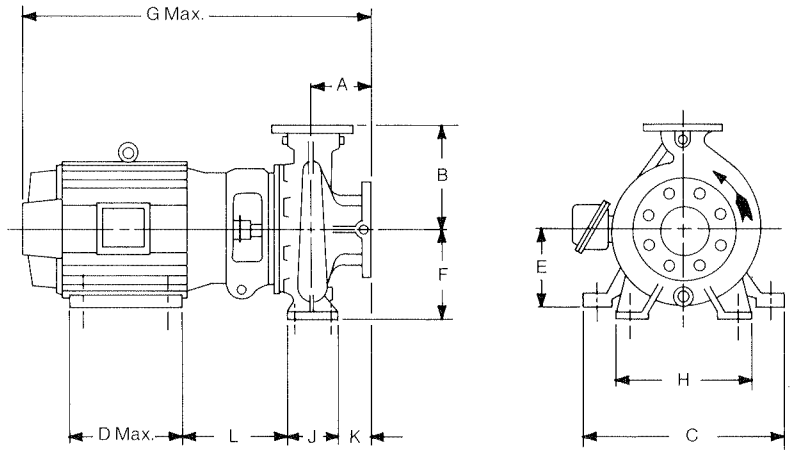


Model No.	Fig. Conn. Suct. x Disch.	HP @ 1750 RPM	HP @ 3450 RPM	Motor Frame	A	B	C	D Max.	E	F	FF	G Max.
1207	2 x 1¼	—	10	215JP	2 15/16	6 1/8	9 1/2	8 7/8	14 1/2	5 1/4	4 5/8	28
1208	2 x 1¼	—	10	215JP	2 15/16	6 15/16	9 1/2	8 7/8	14 1/2	5 1/4	5 1/2	28
			15	254JP			11 3/8	10 11/16	14 3/4	6 1/4		31 1/16
1210	2 x 1¼	7½	—	213JP	3 3/4	8 11/16	9 1/2	7 3/8	14 9/16	5 1/4	6 9/16	27 1/4
1507	2½ x 1½	—	10	215JP	2 15/16	6 3/32	9 1/2	8 7/8	14 1/2	5 1/4	4 13/16	28
			15	254JP			11 3/8	10 11/16	14 3/4	6 1/4		31 1/16
1508	2½ x 1½	—	10	215JP	3 3/4	6 7/8	9 1/2	8 7/8	14 9/16	5 1/4	5 19/32	28 3/4
			15, 20	254JP 256JP			11 3/8	12 7/16	15 9/16	6 1/4		33 5/8
			25	284JP			12 7/8	12 1/4	15 3/8	7		34 1/8
1510	2½ x 1½	7½	—	213JP	3 3/4	8 21/32	9 1/2	7 3/8	14 9/16	5 1/4	6 3/4	27 1/4
2006	2½ x 2	—	10	215JP	3 3/4	6 1/8	9 1/2	8 7/8	14 9/16	5 1/4	5 7/32	28 3/4
			15	254JP			11 3/8	10 11/16	15 9/16	6 1/4		31 7/8
2007	2½ x 2	—	10	215JP	3 3/4	6 7/8	9 1/2	8 7/8	14 9/16	5 1/4	5 1/4	28 3/4
			15, 20	254JP 256JP			11 3/8	12 7/16	15 9/16	6 1/4		33 5/8
			25	284JP			12 7/8	12 1/4	15 3/8	7		34 1/8
2008	2½ x 2	—	15, 20	254JP 256JP	3 3/4	7 11/16	11 3/8	12 7/16	15 9/16	6 1/4	5 15/16	33 5/8
			25	284JP			12 7/8	12 1/4	15 3/8	7		34 1/8
			30, 40	284JP 286JP			14	12 5/8	15 15/16	7		32 1/4
2010	2½ x 2	7½, 10	—	213JP 215JP	3 3/4	8 21/32	9 1/2	8 7/8	14 9/16	5 1/4	6 7/8	28 3/4
2506	3 x 2½	—	15, 20	254JP 256JP	3 3/4	6 7/8	11 3/8	12 7/16	15 9/16	6 1/4	5 7/32	33 5/8
2507	3 x 2½	—	10	215JP	3 3/4	7 11/16	9 1/2	8 7/8	14 9/16	5 1/4	5 21/32	28 3/4
			15, 20	254JP 256JP			11 3/8	12 7/16	15 9/16	6 1/4		33 5/8
			25	284JP			12 7/8	12 1/4	15 3/8	7		34 1/8
			30, 40	284JP 286JP			14	12 5/8	15 15/16	7		32 1/4
2508	3 x 2½	7½, 10	—	213JP 215JP	3 3/4	8 21/32	9 1/2	8 7/8	14 9/16	5 1/4	6 5/16	28 3/4
			30, 40	284JP 286JP			14	12 5/8	15 15/16	7		32 1/4
			50, 60	324JP 326JP			16	14 3/8	16 1/16	8		34 3/16
3007	4 x 3	7½	—	213JP	4 3/4	8 11/16	9 1/2	7 3/8	15 9/16	5 1/4	6 5/32	28 1/4
		20	—	256JP			11 3/8	12 7/16	16 9/16	6 1/4		34 5/8
		25	—	284JP			12 7/8	12 1/4	16 3/8	7		35 1/8
		30, 40	—	284JP 286JP			14	12 5/8	16 29/32	7		33 1/4
		50, 60	—	324JP 326JP			16	16 3/8	17 1/16	8		35 3/16

Suction and Discharge gauge connections ¼" NPT. Casing is below motor foot when FF is greater than F. Allow 6" withdrawal clearance.

"CM" SERIES PUMP DIMENSIONS

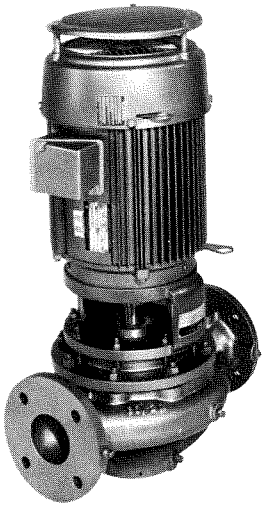
FEET ON PUMP & MOTOR



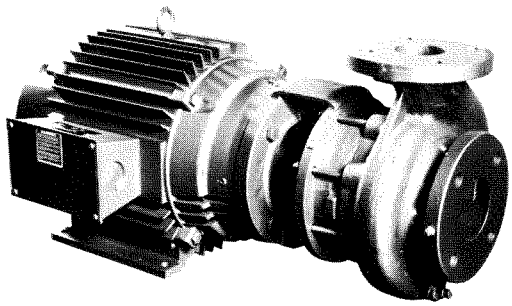
Model No.	Flg. Conn. Suct. x Disch.	HP @ 1750 RPM	Motor Frame	A	B	C	D Max.	E	F	G Max.	H	J	K	L
2510	3 x 2½	7½, 10	213JP 215JP	3¾	9 21/32	9½	8⅞	5¼	7⅞	28¾	14 3/16	6 5/16	19/32	7 11/16
		15	254JP			11⅜	10 11/16	6¼		31⅞				8⅝
2513	3 x 2½	10	215JP	4 23/32	10 13/16	9½	8⅞	5¼	8⅞	29¾	15¾	6 5/16	1 9/16	7 11/16
		15, 20	254JP 256JP			11⅜	12 7/16	6¼		34⅝				8 11/16
		25, 30	284JP 286JP			14	12⅝	7		33¼				9 1/16
3008	4 x 3	7½, 10	213JP 215JP	4 23/32	9⅝	9½	8⅞	5¼	7 3/32	29¾	13 9/16	4 15/16	2¼	8⅜
		15	254JP			11⅜	10 11/16	6¼		32⅞				9⅜
3010	4 x 3	10	215JP	4 23/32	10 13/16	9½	8⅞	5¼	7⅞	29¾	15¾	6 5/16	1 9/16	7 11/16
		15, 20	254JP 256JP			11⅜	12 7/16	6¼		34⅝				8 11/16
		25	284JP			14	11⅛	7		31¾				9 1/16
3013	4 x 3	20	256JP	4 23/32	12 7/32	11⅜	12 7/16	6¼	9 27/32	34⅝	15¾	6 5/16	1 9/16	8 11/16
		25, 30	284JP 286JP			14	12⅝	7		33¼				9 1/16
		40	324JP			16	12⅞	8		33 11/16				9 3/16
4008	5 x 4	7½, 10	213JP 215JP	4 23/32	10 13/16	9½	8⅞	5¼	7⅞	29¾	14 9/16	6 5/16	1 9/16	7 11/16
		15, 20	254JP 256JP			11⅜	12 7/16	6¼		34⅝				8 11/16
4010	5 x 4	15, 20	254JP 256JP	5 5/16	10 13/16	11⅜	12 7/16	6¼	8⅞	35 3/16	15¾	6 5/16	2 3/16	8 11/16
		25, 30	284JP 286JP			14	12⅝	7		33⅞				9 1/16
		40	324JP			16	12⅞	8		34 5/16				9 3/16
4013	5 x 4	20	256JP	5 5/16	12 7/32	11⅜	12 7/16	6¼	9 27/32	35 3/16	15¾	6 5/16	2 3/16	8 11/16
		25, 30	284JP 286JP			14	12⅝	7		33⅞				9 1/16
		40, 50	324JP 326JP			16	14⅜	8		35 13/16				9 3/16
5010	6 x 5	15, 20	254JP 256JP	5 5/16	13 25/32	11⅜	12 7/16	6¼	9 27/32	35 3/16	15¾	6 5/16	2 3/16	8 11/16
		25, 30	284JP 286JP			14	12⅝	7		33⅞				9 1/16
		40, 50	324JP 326JP			16	14⅜	8		35 13/16				9 3/16

Suction and Discharge gauge connections ¼" NPT. Allow 6" withdrawal clearance.

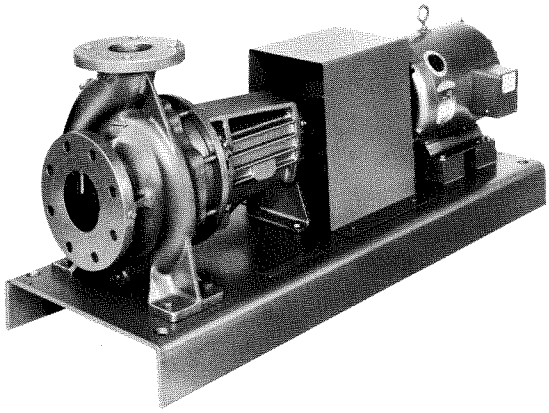
COMPARE. YOU'LL TAKE TACO.



Close-Coupled In-Line Pumps
Series VL



Close-Coupled End Suction Pumps
Series CM



Frame-Mounted End Suction Pumps
Series FM

Taco "CM" Close-Coupled Pumps are based on the latest international standards relating to hydraulic performance and dimensional characteristics, offering the end user many overall advantages.

The "CM" Close-Coupled, End Suction design offers the particular advantages of space saving and lower cost due to elimination of the need for a baseplate, bearing frame, coupling and special guard.

Standard NEMA pump motors are utilized in the Close-Coupled Models. "CM" Pumps incorporate an impeller of advanced design, which plays a major part in their efficient performance.

Trouble-free operation and easy maintenance is insured by the center-line discharge and back-pull-out features.

Casing wear rings, shaft sleeves and gauge tappings are provided as standard. Additionally, a flushed stuffing box with lantern ring is available for special applications.

There are 25 pumps in the Close-Coupled End Suction range with sizes from 1¼ inch to 5 inch, motor powers from 1 HP to 60 HP and both 2 and 4 pole motor speeds.

There is also a high degree of interchangeability with Taco Frame-Mounted and In-Line pumps. This offers both the end user and distributor the advantages of minimum parts inventory, choice of type to suit plant layout, standard dimensions and specifications.

Heating, air conditioning, pressure boosting, cooling water transfer, water supply — these are some of the applications for which the Taco "CM" Pump is ideally suited.

TACO, INC. 1160 Cranston Street, Cranston, Rhode Island 02920 Telephone (401) 942-8000 Telex: 92-7627
TACO (Canada) Ltd., 1310 Aimco Blvd., Mississauga, Ontario L4W 1B2 Telephone (416) 625-2160 Telex: 06-961179

Form No. F300-019 Effective 3/1/87