

CPE C216 MD CENTRIFUGAL PUMP ASSEMBLY (3-5 HP)

FOR CRAFT FOOD AND BEVERAGE INDUSTRIES

PUMPS

HOSES
HEAT EXCHANGERS
FLOW METERS
-

GASKETS

VALVES

FITTINGS

THERMOMETERS

PORTABLE SYSTEMS

AND MORE







Technical Specifications



Materials

Parts in contact w/ product: Stainless steel AISI 316L
Other steel parts: Stainless steel AISI 304
Gaskets in contact w/ product: EPDM

Mechanical seal

Rotary Seal: Carbon or Silicon carbide

(SiC)

Stationary Seal:

Gaskets:

SS, SIC or Ceramic,

EPDM

Surface finish:

Bright polish

Motor:

S.S Premium Efficiency

Nema C Face

Operating limits

Nominal pressure: 10 bar 145 PSI Temperature range: 14 °F to 248 °F

284 °F (SIP, max. 30 min.)

Maximum flow: 100 m³/h 150US GPM
Maximum differential head: 21 m 75 ft
Maximum speed: 3500 rpm

C-series (Close Coupled) Centrifugal Pumps are the most common pumps used in Craft Breweries. Our C-Series is made in North America, 3A approved and provides high capacity at a low price. They feature heavy duty stainless steel construction with a stainless steel washdown motor that make cleaning easier and if well maintained, will last a lifetime. These pumps will give you years of excellent service and when needed, replacement parts are interchangeable with most major brands of sanitary C-series pumps.

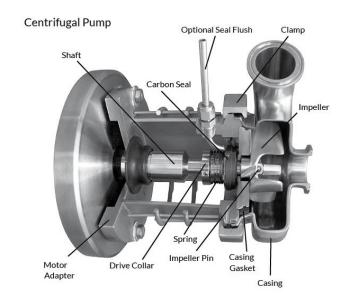


HorsePower	Flow Rate	Head	
3 HP	150 GPM	70 ft.	
5 HP	200 GPM	100 ft.	

Port Connection

Come standard with M Tri-Clamp style connections. but we can provice any connection style possible. Including Acme Bevel Seat Thread, NPT, Flanged or Weld.

Model	Inlet Opt.	Outlet Opt.	Max Impeller
C100	1 1/2"	1"	3.68"
C114	1 1/2" - 2"	1 1/2"	4"
C216	2"	1 1/2"	6"
C218	2"- 3"	1 ^{1/2} "	8"
C328	3"- 4"	2"	8"



CPE Systems Inc. | www.cpesystems.com | +1 800 668 2268 | sales@cpesystems.com







Our AC VFD Drives contain Sensorless Flux Vector Compensation with Static-Auto-Tune. This provides excellent speed regulation from zero to full load over a wide frequency range. These drives provide auto energy savings at light loads and smooth motor torque operation.

Horsepower
1Ø Input
3Ø Output
Enclosure
Dimensions approx.

3 to 5 HP 115/230 VAC, 50/60 Hz 230 VAC, 50/60 Hz Diecast Aluminum NEMA IV 9.8" X 7.6" X 7.3"



SMV NEMA 4/4X (IP65) inverter drives offer sophisticated auto-tuning, fast torque response with impressive low-speed operation. Brought to us by Lenze AC Tech these VFD's are designed for motor applications where dynamic speed and torque control is demanded.

Horsepower 3 HP to 15 HP 3Ø Output 230/460 VAC up to 4.0kW/15HP Enclosure NEMA-4X/IP-65 Dimensions approx. 9.8" X 7.6" X 7.3".

- Die-Cast Aluminum Enclosure with hinged cover
- Powerful 200% Starting Torque
- Digital Display with LED Status Indicators
- Sensorless Flux Vector Control
- Electronic Inrush Current Limit (EICLTM) Protection
- Run/Fault Relay Output Contacts
- Built-in Potentiometer
- Holding Torque at Zero Speed in "Stop" mode
- Undervoltage and Overvoltage Protection
- Short Circuit Protection, phase to phase
- Ride-Through momentary power loss
- Regeneration eliminates tripping

- Superior Performance over 3HP
- Modes of Operation:
- V/Hz (Constant and Variable)
- Enhanced V/Hz (Constant and Variable)
- Vector Speed Control with 60:1 Speed Range
- Vector Torque Control
- Dynamic Torque Response
- Sophisticated Auto-tuning (Motor Calibration)
- Impressive Low Speed Operation
- Sequencer with 16 Programmable segments
- Delayed start/stop
- Over 65K repeat cycles

Heavy Duty Pump Cart



Custom designed for the craft food and beverage industry, our heavy duty pump carts are built for pumps up to 5HP. These carts are ergonomic, tilt draining and have easy manuverability. All parts hand welded in Canada for quality assurance and durability.

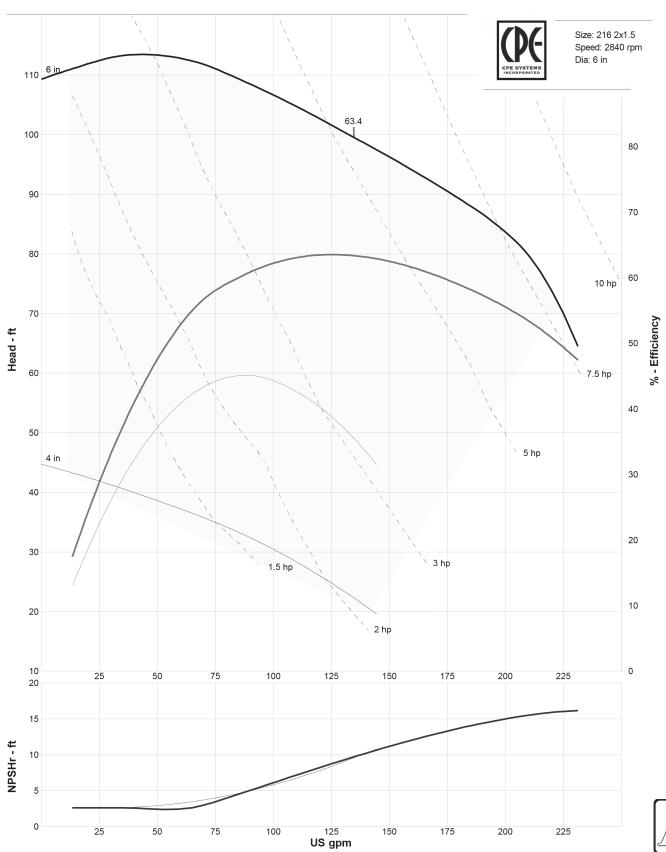
Material

Frame	1 ^{1/2} " 16 ga stainless steel tube		
Handle	1 ^{1/2} " 16 ga stainless steel tube		
Platform	14 ga stainless steel AISI 304		
Axle	1/2 ga stainless steel rod axle		
Wheels	8" non rusting foam filled tires		
Footprint	19"L x 19"W x 38"H		

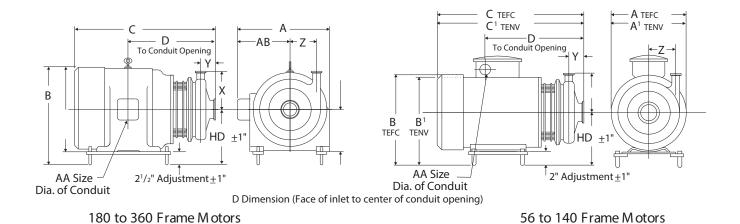




*Based on water at 70°F (22°c)







Pump and Motor Dimensions with "Easy-Clean" Totally Enclosed Motors

Pump														
Model	Frame	Α	A^1	В	B 1	C*	C 1*	C**	C 1**	D*	D**	HD	AA	AB
6114	FF56C	7 ⁹ / ₃₂	61/2	91/8	83/4	211/4	209/16	21 ¹ / ₂	2013/16	17 ³ / ₁₆	17 ⁷ / ₁₆	5 ¹ / ₂	1/2	_
C114	184TC	11 ⁷ /8		11 ¹¹ / ₁₆		21 ¹ /8		213/8		1313/16	14 ¹ / ₁₆	7	3/4	7 ³ / ₁₆
	FF56C	7 9/32	61/2	91/8	83/4	213/8	203/4	215/8	21	17 ⁵ / ₁₆	17 9/16	51/2	1/2	_
C216	184TC	11 ⁷ /8		11 ¹¹ / ₁₆		21 ⁷ /8		211/8		14 ⁹ / ₁₆	14 ¹³ / ₁₆	7	3/4	7 ³ / ₁₆
C216	215TC	14 ¹ / ₂		13 ³ / ₁₆		259/16		25 ¹³ / ₁₆		16 ¹¹ / ₁₆	16 ¹⁵ / ₁₆	73/4	1	91/16
	256TC	16 ⁷ / ₁₆		15 ¹ / ₄		29 ¹⁵ / ₁₆		303/16		1811/16	18 ¹⁵ / ₁₆	83/4	11/4	10
	FF140TC	7 ⁹ / ₃₂	6 ¹ / ₂	9 ¹ / ₈	83/4	22	21	22 ¹ / ₄	21 ¹ / ₄	17 ¹⁹ / ₃₂	17 ²⁷ / ₃₂	5 ¹ / ₂	1/2	_
	184TC	11 ⁷ /8		11 ¹¹ / ₁₆		221/4		22 ¹ / ₂		14 ¹⁵ / ₁₆	15 ³ / ₁₆	7	3/4	73/16
C218	215TC	14 ¹ / ₂		13 ³ / ₁₆		25 ¹³ / ₁₆		26 ¹ / ₁₆		16 ¹⁵ / ₁₆	17 ³ / ₁₆	73/4	1	91/16
	256TC	16 ⁷ / ₁₆		15 ¹ / ₄		31 ¹ / ₁₆		31 ⁵ / ₁₆		19 ¹³ / ₁₆	201/16	83/4	1 ¹ / ₄	10
	284TC	19 ⁵ / ₁₆		16 ³ / ₄		32		32 ¹ / ₄		203/16	20 ⁷ /16	91/2	1 ¹ / ₂	12 ¹ / ₁₆
	FF140TC	7 ⁹ / ₃₂	61/2	91/8	83/4	22 ⁵ /8	215/8	231/8	221/8	18 ⁷ / ₃₂	18 ²³ / ₃₂	5 ¹ / ₂	1/2	_
	184TC	11 ⁷ /8		11 ¹¹ / ₁₆		223/4		231/4		15 ⁷ / ₁₆	15 ¹⁵ / ₁₆	7	3/4	73/16
C328	215TC	14 ¹ / ₂		13 ³ / ₁₆		26 ⁵ / ₁₆		26 ¹³ / ₁₆		17 ⁷ /16	17 ¹⁵ / ₁₆	73/4	1	91/16
C320	256TC	16 ⁷ / ₁₆		15 ¹ / ₄		3111/16		323/16		20 ⁷ /16	2015/16	83/4	11/4	10
	284TC	19 ⁵ / ₁₆		16 ³ / ₄		325/8		331/8		2013/16	21 ⁵ / ₁₆	91/2	1 ¹ / ₂	121/16
	286TC	19 ⁵ / ₁₆		16 ³ / ₄		343/8		347/8		21 ¹³ / ₁₆	225/16	9 ¹ / ₂	1 ¹ / ₂	12 ¹ / ₁₆

Dimensions are approximate and for guidance only. On application where exact dimensions are required, request a certified print from Tri-Clover.

NOTES: 1–Dimensions for single phase #140 frame motives longer.

CPE Systems Inc. www.cpesystems.com +18006682268 sales@cpesystems.com

^{*} With Tri-Clamp connections.

^{**} With threaded bevel seat connections.

These dimensions are for pumps using standard "C" Flange Motors.
 Tri-Flo C Series pumps will not accept TSC Frame Motors.





Product	Specific Gravity	Viscosity
Acetic Acid		
5%	1.01	
10%	1.01	31.7 SSU @ 59°F
50%	1.06	33 SSU @ 59°F
80%	1.08	35 SSU @ 59°F
Animal Fat	0.9	130 SSU @ 115°F
		50 SSU @ 200°F
Barbecue Sauce	1.05	11,500 SSU @ 40-75°F
Beer	1.02	32 SSU @ 68°F
Blood - Animal	.9398	15,000 SSU @ 55°F
Butter	.9398	15,000 SSU @ 55°F
		440 SSU @ 90°F
		220 SSU @ 115°F
Coconut Oil	0.92	125 SSU @ 106°F
Corn Oil	0.92	135 SSU @ 130°F
		54 SSU @ 212°F
Corn Starch Solutions		
22 Baume	1.18	150 SSu @ 70°F
		130 SSU @ 100°F
24 Baume	1.2	600 SSU @ 70°F
		440 SSU @ 100°F
25 Baume	1.21	1400 SSU @ 70°F
		800 SSU @ 100°F
Cottage Cheese	1.02	4,300 SSU
Dressing		
Cream (Sweet)	1	73 SSU
	.99	140 SSU
	.99	215 SSU
Egg Yolk	1.12	21,500 @ 35°F
Gelatin	1.01	1,380 - 2,580 SSU
		@ 160°F
Glucose	1.35 - 1.44	35M - 100M SSU
		@ 100°F
		4M - 11M @ 150°F

Product	Specific Gravity	Viscosity
Honey	1.3	1250 - 1425
		SSU @ 100°F
Ice Cream Mix	1.15	1050 SSU @ 46°F
Lard	0.96	287 @ 100°F
Linseed Oil	.9294	143 @ 100°F
		93 @ 130°F
Malt Syrup	1.41	85,400 SSU @ 77°F
Maple Syrup	1.37	2,000 SSU @ 68°F
Margarine	0.93	13,900
		SSU @ 84°F
Milk	1.02 - 1.05	31.5 @ 68°F
Molasses		
A. First	1.4 - 1.46	1300 - 23,500 SSU
		@ 100°F
		700 - 8160 SSU
		@ 130°F
B. Second	1.43 - 1.48	6535 - 61,180 SSU
		@ 100°F
		3058 - 15294 SSU
		@ 130°F
C. Blackstrap	1.46 - 1.49	12,190 - 255M
		@ 100°F
Mustard	1	17,000 SSU
		@ 85°F
Olive Oil	.9192	200 SSU
		@ 100°F
Peanut Butter	1.2	77,400 SSU @
		110 - 140°F
Sesame Seed Oil	0.92	184 SSU @ 100°F
		110 @ 130°F
Soy Bean Oil	0.91	500 SSU @ 44°F
Tomato Paste	1.14	60M - 80 M SSU
		21M SSU approx.
Water	1	31 SSU @ 68°F