



C/CC Series[™]

Bronze or Cast Iron Pump for Flooded Suction Applications



For semi-commercial and commercial swimming pools and spas recirculation.

All C/CC Series[™] pumps are available in high head and medium head models, providing a complete range of performance characteristics. Select from 3 to 5 HP models with 2½" NPT suction and 2" discharge ports. Motors are open drip-proof, continuous duty rated at 3450 RPM. Suitable for outdoor installation.

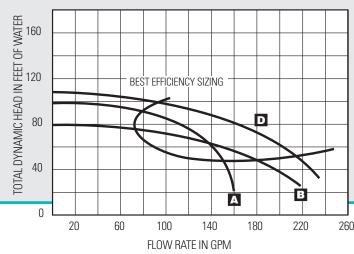
Standard Features

- Easy access back pull-out design entire motor may be removed for servicing impeller, seal or motor without disturbing plumbing.
- Centerline discharge for ease of installation.
- Precision cast and machined silicon brass impeller is dynamically balanced for long seal life and quiet operation. Non-overloading; contains no lead.
- Choice of hair and lint strainer sizes to fit exact application.
- 200 Volt and 575 Volt models available.
 Special duty motors available (consult factory).

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Performance Curves



For detailed efficiency curves for each model, please contact the factory.

KEY

A. CHH/CCHH

B. CMH/CCMH

D. CHJ/CHJ3/CCHJ/CCHJ



MATERIALS AND DESIGN

Pump Body

Port Size

Single suction port: 2½" NPT on centerline Discharge port: 2" NPT on centerline Winterizing drain port: ½" NPT

Material

Series "C": Red brass Series "CC": Cast iron

Impeller

Silicon brass (non-leaded); closed, non-overloading design

Shaft Seal

Self-flushing, mechanical John Crane® Type 2. Ceramic and carbon seal faces. Stainless steel, brass and Buna N spring bellows

Motor

Frame Size

NEMA® Series, JM construction

Shaft

Carbon steel inside a 300 Series stainless steel sealed removable shaft sleeve.

Design

3 to 5 HP, 3450 RPM, open drip-proof (unless otherwise specified), continuous duty rated. 40°C ambient maximum

Bearings

Permanently sealed ball type, pre-lubricated

Thermal Overload Protection

Single-phase motors: Automatic reset Three-phase motors: External thermal protection required.

Maximum Limits

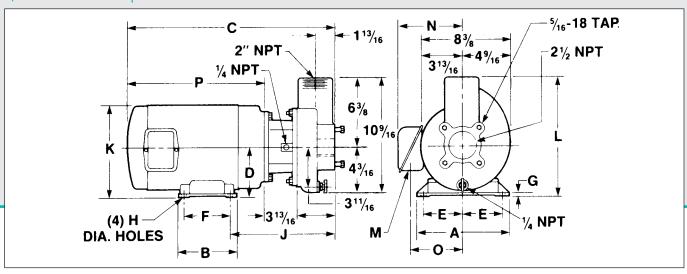
Liquid Temperature 125°F Ambient Air Temperature: 104°F Pressure: 75 psi pH Range: 4-10 bronze, 6-14 cast iron

Certifications

3 HP Models are certified to meet the requirements of NSF Standard 50 with strainers installed. Does not apply to models other than 3 HP.



C/CC Commercial Pump



Outline Dimensions

Catalog			0*		_		0.*	112		.,			B I 4	0.4	D *
Number	Α	В	C*	D	E	F	G*	H*	J	K		M*	N*	0*	P*
CHH3, CCHH3,															
CMH3, CCMH3	7	6	1813/32	3½	23/4	5	9/32	11/32	91/32	71/32	9%	3/4	$6^{29}/_{32}$	$5^{13}/_{32}$	11
CHH, CCHH,															
CMH, CCMH	9	6½	21½	4½	3¾	4½	7/16	7/16	105/16	$9^{23}/_{32}$	10%	3/4	81/18	6½	141/
CHJ3, CCHJ3															
CCHJ, CHJ	9	7½	22½	4½	3¾	5½	7/16	7/16	105/16	$9^{23}/_{32}$	10%	3/4	9	$6^{15}/_{16}$	151/

All dimensions shown in inches. Dimensions may vary with motor supplier.

Ordering Information

Catalog No.	Catalog No.	Nominal		Motor	Max. Load	Wire Size	Approx. Ship Weight (lbs.)	
Bronze	Cast Iron	HP	Phase	Voltage	Amps**	to 50 Ft.	Bronze	Cast Iron
HIGH HEAD								
СНН	CCHH	3	1	230	33/30	10	116	106
CHH3	ССНН3	3	3	230/460	16.6/15/8	14	91	86
CHJ3	CCHJ3	5	3	230/460	27.6/25/12	12/14	115	110
CHJ	CCHJ	5	1	230	31	_	131	126
MEDIUM HEAD								
CMH	CCMH	3	1	230	33/30	10	111	106
CMH3	ССМН3	3	3	230/460	16.6/15/8	14	91	86

Note: Available in 575 volt models. Call factory.

ALL PUMP MODELS require external overload protection. 3-phase models, and 5 HP single phase, require a magnetic starter.

Maximum ambient temperature: 104°F (40°C).

200 and 575 volt models available. Consult factory.

^{**}Dimensions and Max Load Amps may vary per motor manufacturer. The standard motor is made by Baldor.

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ENGINEERING SPECIFICATIONS

C/CC Series Pump

Recirculating pump shall be Sta-Rite Model No. _____ Centrifugal
 Pump _____ phase, 60 Hz.

General Notes

- Install pump in a cool, dry, well vented location away from pool heaters, and chemical storage.
- Pump should be firmly mounted with pipe supported, to prevent vibration and undue operational noise.
- Allow 12" minimum clearance behind motor for servicing.
- Motor overheating may be caused by a voltage drop or excessive voltage. Be sure that wire size and voltage input is properly regulated.

Specifications

- The recirculating pump shall be a flooded suction centrifugal type pump, equipped with a hair and lint strainer installed as shown in the plans.
- The pump body seal plate and attached hair and lint strainer shall be cast of ______ (red brass or gray iron) and close coupled to the electric motor by means of an adapter of the same material. The pump body shall have a single suction port of 2½" NPT, a centerline discharge port of 2" NPT, and a drain port of ½" NPT for winterizing. The pump shall be a back pull-out design to allow servicing without disturbing piping. Impeller wear ring shall be of bronze material and be replaceable.
- The impeller shall be cast of silicon brass material and be of the closed design, non-overloading at any point on the performance curve.
 The self-flushing mechanical shaft seal shall be of the John Crane[®]
 Type 2 or equivalent and constructed of ceramic and carbon in the seal faces, and stainless steel, brass, and Buna N in the spring bellows portion. The impeller shall be secured to the motor shaft by means of a stainless steel key and a locking screw into the end of the motor shaft.

- All fasteners in the pump shall be stainless steel. There shall be a shaft slinger made of Neoprene to protect the motor bearings from any seal leakage.
- The pump shall be capable of operating at a 75 psi pressure,
 125°F continuous liquid temperature, and within a pH range of 4-10.
- The electric motor coupled to the pump shall be of the NEMA® Series JM construction with carbon steel shaft inside a sealed removable shaft sleeve of 300 Series stainless steel. The motor shall be of an open, drip-proof design (unless otherwise specified) with permanently sealed ball bearings. Single-phase motors shall have built-in thermal overload protection of the automatic reset type. Motors shall be continuous duty rated at 40°C, or better, and be suitable for outdoor installation. The pump assembly shall have a stable mounting base capable of being anchored to the mounting surface.

•	The pump motor shall be a	HP,	phase, 60 Hz, 3450
	RPM for service on	volt electrical supply	y. The pump and moto
	shall be non-overloading a	t any point on the pe	erformance curve. The
	pump shall be rated for	GPM at	TDH.



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