For commercial and high-end residential swimming pools and other water applications. Available in flows to 740 GPM, and from 5 to 20 HP.

The C Series is a heavy-duty commercial pump specifically designed for large pools, fountains and water attractions that demand high flow rates and continuous operation. With bronze construction and a stainless steel strainer basket, the C Series is perfect for the toughest indoor or outdoor projects. This pump’s lasting efficiency, quiet operation, easy maintenance, and durability has set the standard for medium- and high-head performance in the pool industry for many years.

Available with and without a hair and lint strainer.

**Standard Features**

- All bronze construction for strength and durability.
- Close coupled for quiet, stable flow.
- Heavy-gauge stainless steel strainer basket, with open area five times the area of the suction port.
- 6 inch suction and 4 inch discharge for maximum efficiency with strainer.
- Closed impeller for longer motor bearing life.
- Heat-resistant seal for operation up to 150°.
- Available in single- and three-phase 50 and 60 Hz models.
- 200/208 and 575 volt models available on request.
- One-year limited warranty. See warranty for details.
C Series®
High Performance Commercial Bronze Pumps

MATERIALS AND DESIGN

**Pump Body**

- **Volute type, back pull-out design**
  - **Port Size**
    - 6” – ANSI® 125 lb. bolted flange suction port on strainer.
    - 5” – ANSI® 125 lb. bolted flange suction port less strainer.
    - 4” – ANSI® 125 lb. bolted flange discharge port.

- **Material**
  - Volute & Motor Adapter: Bronze CA 84400.
  - Impeller: Bronze CA 83600.
  - Base: Enamel Coated Cast Iron Foot CL30.

- **Corrosion Prevention**
  - All-bronze pump with stainless steel basket for maximum corrosion prevention.

**Hair and Lint Strainer**

- **Material**
  - Strainer pot – Bronze CA 84400.
  - Strainer – Stainless Steel.

- **Size**
  - 6” ANSI® 125 lb. bolted flange suction ports.

**Pump Maximum Limits**

- **Liquid Temperature:** 104°
- **Ambient Air Temperature:** 104°

**Motor**

- **TY Frame Motor**
  - **Frame size**
    - NEMA® flange. 230/460V are open drip-proof design.
  - **Shaft**
    - 303 Stainless steel construction.
  - **Design**
    - 5 to 20 HP, 3500 RPM, JM open drip-proof, continuous duty, three-phase and single-phase (5, 7 ½, and 10 HP only).
  - **Bearings**
    - Lubricated double sealed ball bearings.
  - **Thermal Overload Protection**
    - All models require external thermal overload protector.

**Electrical**

- **Power Supply Required**
  - Three-phase pumps are 208/220-440 and 200/208.
  - 5, 7 ½, and 10 HP Single-phase models are available in 230V, 60 Hz only.
### CHK/CMK Three-Phase 200/208V 60 Hz

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Voltage</th>
<th>Amps</th>
<th>HP</th>
<th>Carton Wt. (lbs.)</th>
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### CHK/CMK Three-Phase 220/440V 60 Hz

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### CH/CM Single-Phase 200/208V only 60 Hz

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### CH/CM Single-Phase 230V only 60 Hz

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1. Not NSF listed.
2. 208V not available.
3. Full load amps shown.
High Performance Commercial Bronze Pumps

C Series Pump

• Recirculation pump shall be Pentair C Series Model No._________.
  centrifugal pump,____ phase, 60 Hz.

Installation

• 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 recirculation pump shall be a centrifugal design with a hair and lint strainer as shown in the plans.
• The pump body and attached hair and lint strainer shall be constructed of non-corrosive Bronze materials, and close-coupled to an electric motor by means of an adaptor of the same material. The pump body shall have a single suction port with a 6” ANSI® 125 bolt flange to the hair and lint strainer. A centerline discharge port of 4” ANSI® 125 bolt flange and a winterizing drain port of ¼” NPT shall be a part of the design.
• The pump shall be a back pullout design to allow servicing without disturbing piping. The impeller shall be of the closed type and Bronze materials, non-overloading at any point on the performance curve. The mechanical shaft seal shall be constructed of ceramic and carbon seal faces, with stainless steel, brass and Buna N materials in the spring bellows portion. The impeller shall be secured to the motor shaft by means of a stainless steel key and locking screw into the end of the motor shaft. The pump shall be capable of operating at up to 50 psi, 104°F continuous water temperature.
• The electric motor coupled to the pump shall be of the NEMA® series JM construction with stainless steel shaft sleeve of 300 series stainless steel. The motor shall be of an open, drip-proof design (unless otherwise specified) with double shielded, single row, deep groove ball bearings. Motors shall be continuous duty rated at 40°C (or better) ambient and be suitable for outdoor installation.
• The pump motor shall be a ___ HP, ___ phase, 60 Hz, 3450 RPM for service on a ___ volt electric supply. The pump shall be rated for ______ GPM at ____ TDH. The pump shall be tested and certified by a nationally recognized testing laboratory to conform to National Sanitation Foundation Standard 50.

Hair and Lint Strainer

• The pump strainer shall consist of a Bronze body, Bronze cover with O-ring seal, and threaded locking bolts, and a strainer basket of stainless steel.
• The strainer body shall be 6” ANSI® 150 bolt flanged suction ports. The strainer body shall have a removable drain plug for winterizing.
• The strainer basket shall be securely positioned below the suction inlet of the trap, with access for inspection and cleaning through a removable trap body lid. The trap body lid shall be secured by means of a 2 hand nut assemblies. The strainer basket shall have a perforation, which in total open area is 5 times the area of the suction port.

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