# C SERIES<sup>™</sup> PUMP

# **Installation Instructions**

# IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS

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Before installing this product, read and follow all warning notices and instructions accompanying this pump. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions.

### **Important Notice**



Attention Installer.

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

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#### Risk of electrical shock or electrocution.

This pool pump must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property.

Always disconnect power to the pool pump at the circuit breaker before servicing the pump. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electric shock.

**Pentair Pool Products** 1620 Hawkins Ave., Sanford, NC 27330 • (919) 774-4151 10951 West Los Angeles Ave., Moorpark, CA 93021 • (805) 523-2400



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To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

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DO NOT OPERATE THIS UNIT DRY. Operating this unit dry will damage the shaft seal which will cause the pump to leak.

### ACAUTION

Motor must be wired as indicated on motor diagram. (See box cover and nameplate). Refer to 'Motor Rotation Check' for correct pump rotation. Incorrect rotation can damage the pump.

*Three Phase Motors are NOT thermally protected.* MUST be installed in conjunction with a Magnetic Starter equipped with Thermal Overload Protection.

#### SECTION I. MOTOR REMOVAL.

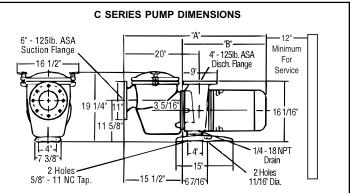
- 1. Support motor on both sides. Remover four hex head cap screws (22) that hold motor to volute (7).
- 2. Carefully and slowly pull motor (23) until seal flange (17) and impeller (15) are completely out of the volute (7). Avoid resting entire unit on seal flange or impeller.
- 3. Remove Allen head cap screw (12) and washer (13) from center of impeller (15). Pull impeller from shaft. Do not lose square key (21).
- 4. Remove seal spring member (16) from shaft. Avoid cutting rubber parts or scratching carbon face.
- 5. Remove two hex head cap screws (19) from seal flange (17). Hold seal flange so that it does not drop on motor shaft while removing screws. Remove seal flange.
- 6. Remove ceramic seal face member (16) from center of seal flange (17) and o-ring (18) from grove. Check for nicks and cuts. Replace as necessary.
- 7. Finally, remove water slinger (20) if replacing with new one or servicing motor.

#### SECTION II. MOTOR INSTALLATION PROCEDURES.

- 1. Slip water slinger (20) on motor shaft past shoulder.
- 2. Press ceramic seal face member (16) into center cavity of seal flange (17) with the smooth ceramic facing out. Clean and grease o-ring (18) and place in seal flange groove.

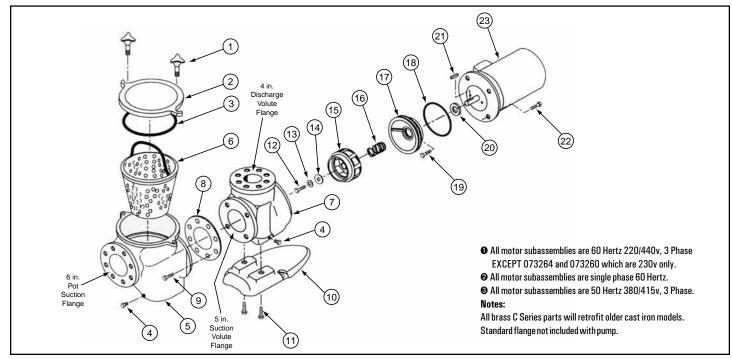
#### NOTE MAKE SURE THAT CERAMIC FACE IS FREE FROM OIL OR GREASE.

- 3. Install seal flange on motor register and secure in place with two cap screws (19).
- 4. Press seal spring member (16) on motor shaft with carbon face towards ceramic seal member. Avoid cutting rubber parts on shaft.
- 5. Line up keyways and push impeller (15) on motor shaft up to shoulder. Insert square key (21) in place.
- 6. Secure impeller with washer (13) and Allen head cap screw (12).
- 7. Position and carefully install assembled motor until to the volute (7) and secure motor using cap screws (22).
- 8. Remove motor shaft and cap. Momentarily, start and stop motor while impeller is still turning,



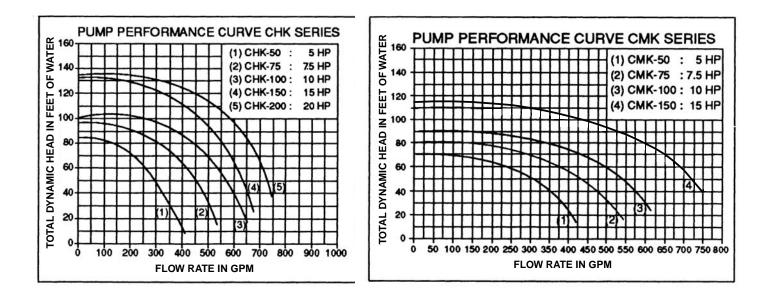
check end shaft rotation. Rotation must be in the direction indicated by the arrow on the outside of the volute (7). Fill strainer pot with water, install basket, and secure cover. Pump is ready for operation. Press in motor shaft end cap.

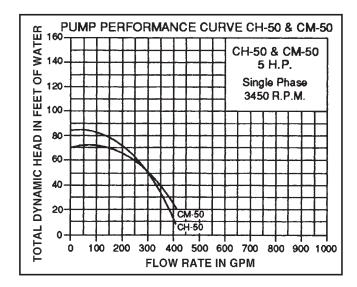
#### SECTION III. PARTS LIST C SERIES PUMPS.



ltem No.	Part No.	Reference No.	Description		
1	075280	54475281199	Hand nut assy brass, 2 req.		
2	075275	26075275219	Cover, C-16 - brass		
3	071433	3640525457	O-ring C-18		
4	071551	6000002190	Plug pipe ¼ in. brass, 2 req.		
5	075271	79675271199	Pot mach. strain brass C-22		
6	072795	70472795100	Basket, C-29 s/s 11 in.		
7	075273	18075273199	Volute C-2 brass		
8	070943	36470943603	Gasket flange P-135-5 in.		
9	071683	1680634104	Screw ¾ in 10 x 1¾ in. HH brass P-12, 4 req.		
10	075287	82075287632	Foot C-4 cast iron - coated		
11	071688	1680558359	Screw 5/8 -11 x 1 s/s HH, 2 req.		
12	071037	1680115104	Imp.·C-35 lock screw		
13	071048	90871048212	Imp. washer C-71		
14	356631	3642034603	lmp. washer gasket		
15	073828	44473328208	Imp CH-50/CHK-50/CHKL-50 - 5hp, single, 3ph, high head		
15	070228	44470228208	Imp CM-50/CMK-50/CMKL-50 - 5hp, single, 3ph, med. head		
15	073829	44473829208	Imp CHK-75/CHK-75/CHKL-75 - 7.5hp, single, 3ph, high head		
15	070227	44470227208	Imp CM-75/CMK-75/CMKL-75 - 7.5hp, single, 3ph, med. head		
15	073830	44473830208	Imp CHK-100/CHKL-100 - 10hp, 3ph, high head		
15	070226	44470226208	Imp CMK-100/CMKL-100 -10hp, 3ph, med. head		
15	073831	44473831208	Imp CHK-150/CHKL-150-15hp, 3ph, high head		
15	070225	44470225208	Imp CMK-150/CMKL-150 - 15hp, 3ph, med. head		
15	073832	44473832208	Imp CHK-200/CHKL-200 - 20hp, 3ph, high head		
16	071725	71271725753	Seal (C-7) PS-360		
17	070906	11670906199	Flange, machC-52 brass		
18	071423	3640508457	0-ring, C-70		
19	071681	1680378104	Screw 3/8 - 16 x ¾ in. CS HH, 2 req.		
20	072185	7641043478	Water slinger C-115		
21	071046	4720201104	Impeller key 3/16 in. sq.		
22	071687	1680155113	Screw ½ in 13 x 1¼ in. std. HH, 4 req. 60 HERTZ MOTORS		
23	357205		Motor 5 hp, 1ph, 200/208v		
23	071366	52571366999	Motor 5hp, 1ph, 230v		
23	357206		Motor 5hp, 3ph, 200/208v		
23	071364	52571364999	Motor 5hp, 3ph, 220/440v		
23	357237		Motor 5hp, 3ph, 575v		
23	357207		Motor 7.5hp, 1ph, 200/208v		
23	357204	525357204999	Motor 7.5hp, 1ph, 230v		
23	357208	50534005055	Motor 7.5hp, 3ph, 200/208v		
23	071365	52571365999	Motor 7.5hp, 3ph, 220/440v		
23	357247		Motor 7.5hp, 3ph, 575v		

No.   No.     60 HERTZ MOTORS (Cont'd.)     23   357209   Motor 10hp, 3ph, 200/208v     23   071363   52571363999   Motor 10hp, 3ph, 220/440v     23   357238   Motor 10hp, 3ph, 575v     23   071361   52571361999   Motor 15hp, 3ph, 575v     23   071362   52571362999   Motor 20hp, 3ph, 52v     23   072745   Motor 20hp, 3ph, 575v     23   072737   52572737999   Motor 5hp, 3ph, 380/415v     23   072740   5257274999   Motor 10hp, 3 ph, 380/415v     23   072740   5257274999   Motor 10hp, 3 ph, 380/415v     23   072744   5257274999   Motor 20hp, 3 ph, 380/415v     073260   Motor sub assy. CMK-50 ●     073261   Motor sub assy. CMK-50 ●   073265     073265   Motor s	ltem		Reference	Description					
23 357209 Motor 10hp, 3ph, 200/208v   23 071363 52571363999 Motor 10hp, 3ph, 220/440v   23 357238 Motor 10hp, 3ph, 575v   23 071361 52571361999 Motor 15hp, 3ph, 220/440v   23 357245 Motor 15hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 575v   50 HERTZ MOTORS   23 072739 52572739999   Motor 15hp, 3ph, 380/415v 23 072740   23 072740 52572749999   Motor 10hp, 3ph, 380/415v 23 072742   23 072740 5257274999   Motor Sub assy. CM-50 073264 Motor sub assy. CM-50   073260 Motor sub assy. CM-50 073265   073261 Motor sub assy. CMK-50 073266   073265 Motor sub assy. CMK-50 073266   073266 Motor sub assy. CMK-100 073267   073268 Motor sub assy. CMK-100 073268   073269 Motor sub assy. CMK-150 073268   073268 Motor	No.	No.	No.						
23 071363 52571363999 Motor 10hp, 3ph, 220/440v   23 357238 Motor 10hp, 3ph, 575v   23 071361 52571361999 Motor 15hp, 3ph, 220/440v   23 357245 Motor 20hp, 3ph, 575v   23 071362 52571362999 Motor 20hp, 3ph, 575v   23 072737 5257273999 Motor 5hp, 3ph, 380/415v   23 072740 5257273999 Motor 10hp, 3 ph, 380/415v   23 072740 52572740999 Motor 10hp, 3 ph, 380/415v   23 072740 52572742999 Motor 10hp, 3 ph, 380/415v   23 072742 52572744999 Motor 10hp, 3 ph, 380/415v   23 072744 52572744999 Motor 20hp, 3 ph, 380/415v   23 072744 52572744999 Motor sub assy. CM-50 ●   073260 Motor sub assy. CM-50 ●    073261 Motor sub assy. CMK-50 ●    073265 Motor sub assy. CMK-100 ●    073266 Motor sub assy. CMK-100 ●    073267 Motor sub assy. CMK-100 ●    073268 Motor sub assy. CM-75, 1ph, 230v ● <									
23 357238 Motor 10hp, 3ph, 575v   23 071361 52571361999 Motor 15hp, 3ph, 220/440v   23 357245 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 575v   50 HERTZ MOTORS   23 072737 5257273999   9 257740 52572740999   Motor 10hp, 3ph, 380/415v 23 072740   23 072742 52572740999   Motor 20hp, 3ph, 380/415v 23 072742   23 072744 52572740999   Motor 10hp, 3ph, 380/415v 23 072744   23 072744 52572744999   Motor sub assy. CM-50 ● 0 073262   Motor sub assy. CM-50 ● 0   073265 Motor sub assy. CM-50 ●   073266 Motor sub assy. CM-50 ●   073267 Motor sub assy. CM-50 ●   073268 Motor sub assy. CM-50 ●   073269 Motor sub assy. CM-50 ●   073268 Motor sub a									
23 071361 52571361999 Motor 15hp, 3ph, 220/440v   23 357245 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 575v   50 HERTZ MOTORS   23 072739 52572739999   Motor 7.5hp, 3ph, 380/415v 23 072740   23 072740 52572740999   Motor 10hp, 3ph, 380/415v 23 072742   23 072742 52572742999   Motor 10hp, 3ph, 380/415v 23   23 072744 5257274999   Motor 20hp, 3ph, 380/415v 24   24 52572744999 Motor 20hp, 3ph, 380/415v   25 072744 52572744999   Motor sub assy. CM-50 ① 073262   Motor sub assy. CM-50 ① 073265   073265 Motor sub assy. CM-50 ①   073266 Motor sub assy. CMK-100 ①   073267 Motor sub assy. CMK-100 ①   073268 Motor sub ass			525/1363999						
23 357245 Motor 15hp, 3ph, 575v   23 071362 52571362999 Motor 20hp, 3ph, 220/440v   23 357246 Motor 20hp, 3ph, 575v   50 HERTZ MOTORS   23 072737 52572737999 Motor 5hp, 3ph, 380/415v   23 072740 52572740999 Motor 10hp, 3 ph, 380/415v   23 072740 52572740999 Motor 10hp, 3 ph, 380/415v   23 072742 52572742999 Motor 15hp, 3 ph, 380/415v   23 072742 52572742999 Motor 15hp, 3 ph, 380/415v   23 072744 52572744999 Motor Sub assy. CM-50 •   073260 Motor sub assy. CM-50 • 073262   073261 Motor sub assy. CMK-50 • 073265   073265 Motor sub assy. CMK-75 • 073266   073266 Motor sub assy. CMK-75 • 073266   073267 Motor sub assy. CMK-100 • 073267   073268 Motor sub assy. CMK-100 • 073268   073269 Motor sub assy. CMK-50 • 073269   073269 Motor sub assy. CMK-50 • 073269   073269 Motor sub assy. CMK-50 •									
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23 357246 Motor 20hp, 3ph, 575v   50 HERTZ MOTORS   23 072737 52572737999 Motor 5hp, 3ph, 380/415v   23 072739 52572739999 Motor 7.5hp, 3ph, 380/415v   23 072740 52572740999 Motor 10hp, 3ph, 380/415v   23 072742 52572749999 Motor 10hp, 3ph, 380/415v   23 072742 52572749999 Motor 10hp, 3ph, 380/415v   23 072744 5257274999 Motor 20hp, 3ph, 380/415v   Vator Sub assemblies include items #12 thru #23.   073260 Motor sub assy. CM-50 ①   073262 Motor sub assy. CMK-50 ①   073263 Motor sub assy. CMK-50 ①   073266 Motor sub assy. CMK-75 ①   073266 Motor sub assy. CMK-100 ①   073267 Motor sub assy. CMK-100 ①   073268 Motor sub assy. CMK-150 ①   073269 Motor sub assy. CMK-150 ①   073268 Motor sub assy. CMK-150 ①   073269 Motor sub assy. CMK-150 ①   073269 Motor sub assy. CMK-50 ①   073269 Motor sub assy. CMK-50 ①   073269 Mo				• • •					
50 HERTZ MOTORS     23   072737   52572737999   Motor 5hp, 3ph, 380/415v     23   072739   52572739999   Motor 7.5hp, 3ph, 380/415v     23   072740   52572740999   Motor 10hp, 3ph, 380/415v     23   072742   52572742999   Motor 10hp, 3ph, 380/415v     23   072742   52572742999   Motor 20hp, 3ph, 380/415v     23   072744   52572744999   Motor 20hp, 3ph, 380/415v     23   072744   52572744999   Motor 20hp, 3ph, 380/415v     Motor sub assy. CMK-50 ①     073260   Motor sub assy. CMK-50 ①     073262   Motor sub assy. CMK-50 ①     073263   Motor sub assy. CMK-75 ①     073266   Motor sub assy. CMK-75 ①     073266   Motor sub assy. CMK-100 ①     073267   Motor sub assy. CMK-100 ①     073268   Motor sub assy. CMK-150 ①     073268   Motor sub assy. CMK-150 ①     073269   Motor sub assy. CMK-150 ①     073269   Motor sub assy. CMK-50 ①     073269   Motor sub assy. CMK-50 ①     0			525/1362999	• •					
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23 072744 52572744999 Motor 20hp, 3 ph, 380/415v   Motor sub assemblies include items #12 thru #23.   073260 Motor sub assy. CM-50 ①   073262 Motor sub assy. CH-50 ①   073265 Motor sub assy. CHK-50 ①   073266 Motor sub assy. CHK-50 ①   073263 Motor sub assy. CHK-50 ①   073266 Motor sub assy. CHK-75 ①   073266 Motor sub assy. CHK-75 ①   073266 Motor sub assy. CHK-75 ①   073266 Motor sub assy. CHK-100 ①   073267 Motor sub assy. CHK-100 ①   073268 Motor sub assy. CHK-100 ①   073269 Motor sub assy. CHK-150 ①   073269 Motor sub assy. CHK-150 ①   073269 Motor sub assy. CHK-150 ①   073269 Motor sub assy. CHK-200 ①   357905 Motor sub assy. CHK-150 ①   073269 Motor sub assy. CHK-50 ③   014700 Motor sub assy. CHK-50 ③   014700 Motor sub assy. CHK-50 ③   0				• • •					
Motor sub assemblies include items #12 thru #23.     073260   Motor sub assy. CM-50 •     073264   Motor sub assy. CH-50 •     073265   Motor sub assy. CHK-50 •     073266   Motor sub assy. CHK-50 •     073265   Motor sub assy. CHK-50 •     073266   Motor sub assy. CHK-50 •     073266   Motor sub assy. CHK-75 •     073266   Motor sub assy. CHK-75 •     073267   Motor sub assy. CHK-100 •     073268   Motor sub assy. CHK-150 •     073269   Motor sub assy. CHK-150 •     073261   Motor sub assy. CHK-150 •     073268   Motor sub assy. CHK-150 •     073269   Motor sub assy. CHK-200 •     357910   Motor sub assy. CHK-75, 1ph, 230 v @     357930   Motor sub assy. CH-75, 1ph, 200 v @     357930   Motor sub assy. CHK-50, 380/415 v @     014700   Motor sub assy. CHKL-50, 380/415 v @     014701   Motor sub assy. CHKL-50, 380/415 v @     014801   Motor sub assy. CHKL-50, 380/415 v @     014702   Motor sub assy. CHKL-50, 380/415 v @     014802   Motor sub assy. CHKL-50, 380/415 v @									
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