

# Self Primers

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- Out-of-pond construction - NOT Submersible!
- Ports are 2" FNPT suction and 2" FNPT discharge.
- Units are pre-wired with an 8' cord and molded 115V plug.
- Housing is molded of high strength, glass filled polypropylene.
- Quiet operation.
- 250 cubic inch integrated strainer basket
- Dry run resistant mechanical seals.
- Stainless steel hardware is standard.
- The motors are TEFC, for excellent protection.
- Rebuildable, industrial grade motors.
- Three year limited warranty!

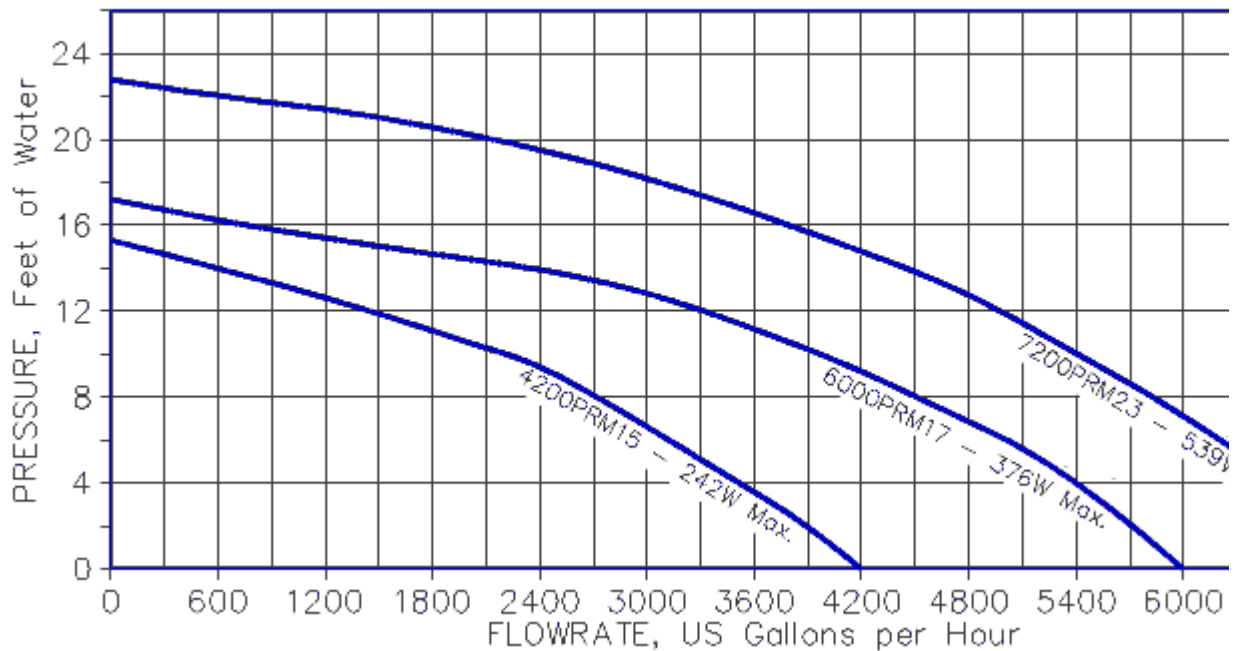
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## Sequence Self Primer

MODEL	4200PRM15	6000PRM17	7200
SIZE	1/4 H.P.	1/3 H.P.	1/2
HEAD	15' MAX HEAD	17' MAX HEAD	23' MA
FLOW	1500-3500 USgph'	1500-5400 USgph'	1500-66
DRAW	242 WATTS	376 WATTS	539 \

## Performance Chart

SEQUENCE PRIMER PERFORMANCE DATA



**25**  
Years of Excellence

# Wiring Diagrams

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Low Voltage (115V)		
Line A (White)	Line B (Black)	Together
1, 3	4	2, J

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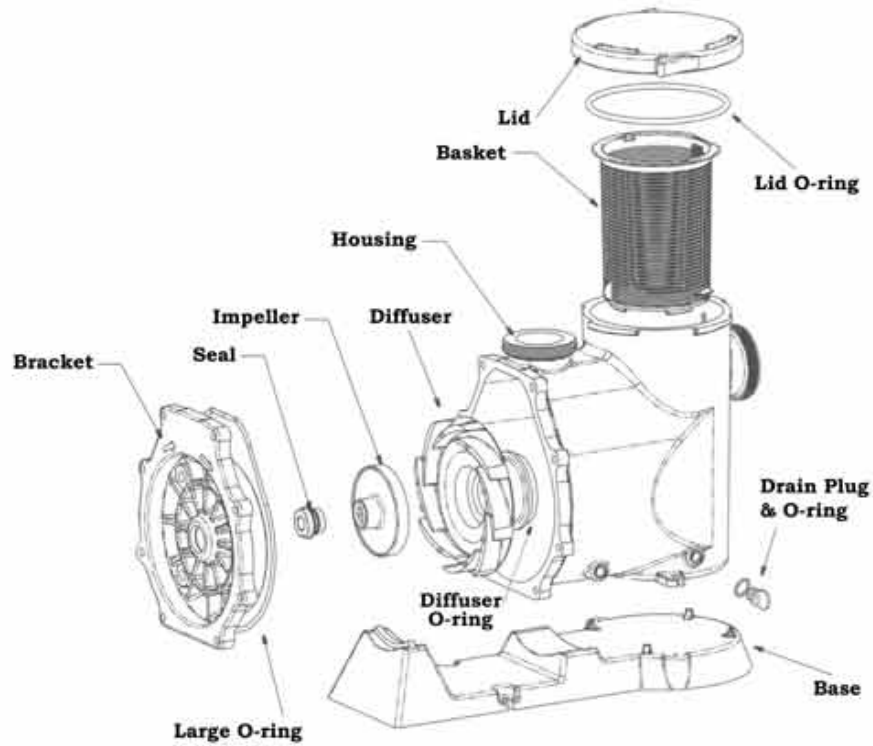
High Voltage (230V)			
Line A (White)	Line B (Black)	Together	Tape
1	4	2, 3	J



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# Parts List

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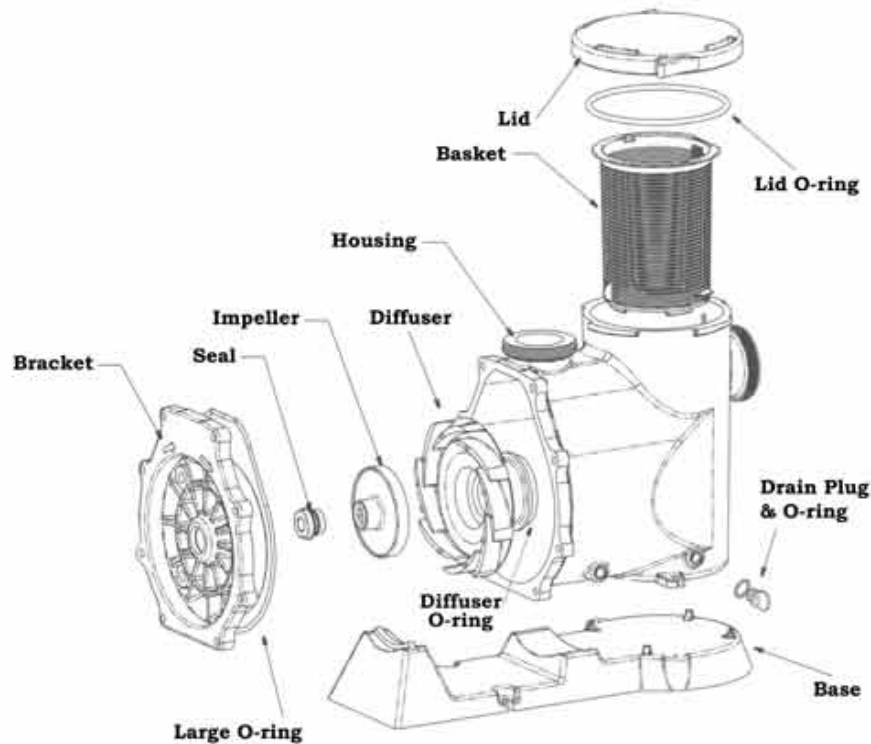
Part Number	Description
9000.070	Volute
9000.111	Drain Plug & O-ring
9000.053	#3 Impeller (used in 4200PRM15)
9000.056	#6 Impeller (used in 6000PRM17)
9000.059	#9 Impeller (used in 7200PRM23)
9000.120	Diffuser
9000.121	Diffuser O-ring
1000.010V	Slinger
9000.779	Lid
9000.778	Basket
1000.0414	Saltwater Seal
1000.0415	Standard Dry Run Brass Seal
9000.777	Lid O-ring
9000.061	Large O-ring
9000.030	Bracket
9000.901	Saltwater Shaft Sleeve Kit With Instructions
1000.010V	Slinger
9000.751	Base
9000.502	Hardware Kit

# Service Manual

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## Pump End Assembly

1. Clean and inspect all pump parts (O-ring, seal seats, motor shaft, etc.).
2. Apply sealant in bracket bore hole and possibly around seal case according to sealant instructions. Note: For SS seal, chamfer the edge of the bracket bore hole.
3. Press carbon graphite seal into bracket while taking care not to damage carbon graphite face.
4. Place slinger (rubber washer) over motor shaft and mount bracket to motor.
5. Carefully lubricate boot or O-ring around ceramic piece and press into impeller.  
Note: Use glycerin for seal insertion.
6. Sparingly lubricate sealing surfaces. Water, glycerin, or a light-weight machine oil may be used. Do not use silicon lubricants or grease!
7. Thread impeller onto shaft and install O-ring and screw. If required, remove motor end-cap and use a screwdriver on the back of motor shaft to prevent shaft rotation while tightening. Replace motor end cap.
8. Place diffuser over impeller and tighten allen bolts used to hold diffuser in place.  
Note: be sure diffuser is in an upright position. (The words "top" appears on the diffuser as an indicator)
9. Seat O-ring on lip of diffuser.
10. Seat O-ring, in bracket groove and assemble volute to bracket.
11. Install drain plugs with O-rings in volute drain holes.



## Disassembly

1. Shut off power to motor before disconnecting any electrical wiring from the back of the motor.
2. Disassemble the bracket-motor assembly from the volute, by removing the 8 bolts. (The volute may be left in-line if you wish.)
3. Remove the two allen bolts and the diffuser.
4. Remove cap covering shaft at back of motor and with a large screwdriver, prevent shaft rotation. Remove the screw and O-ring from the front side of impeller and unscrew

the impeller.

5. Remove ceramic piece from impeller.

6. Detach bracket from motor.

7. Remove carbon-graphite seal from bracket by pressing out from the back. Do not dig out from the front!

### **Maintenance**

Lubrication

Motor - Permanently Lubricated ball bearings - no service required.

Rotary Seal - Requires no lubrication after assembly.

The pump must be drained before servicing or if stored below freezing temperatures.

Periodic replacement of seals may be required due to normal carbon wear.



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