

# PORTABLE VACUUM SYSTEM

Users Manual



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Thank you for purchasing the Advantage Portable Vacuum System. We recommend that you take a few minutes to read this owner's manual and familiarize yourself with the proper operation of your system.

Thank you for your purchase and enjoy your vacuum system.

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Warranty located on back cover

# Vacuum System Diagram



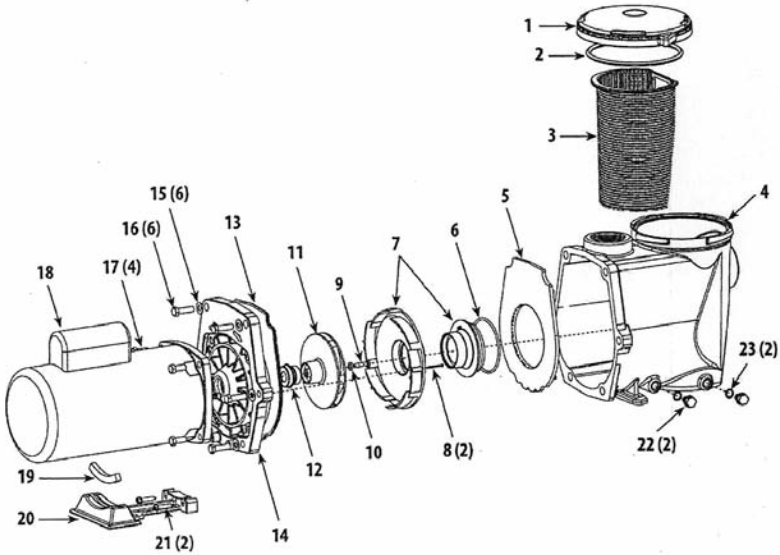
# Operating Instructions

1. Place unit at side of pool.
  2. Make sure ON/OFF switch is set on OFF.
  3. Make sure GFCI is reset.
  4. Plug unit into 20 amp GFCI outlet
  5. Attach discharge hose to outlet side of filter and make sure the union barb is tight with original O-ring in place and place discharge hose into pool.
  6. Open bleeder valve at top of filter to purge air from tank.
  7. Fill hair and lint trap with water and retighten lid.
  8. Flood the suction hose by holding completely under water, then place hand over suction hose to keep water in the hose while attaching to the side union barb (make sure union barb is tight with original O-ring in place). May use optional union check valve.
  9. Start unit by turning the ON/OFF switch to ON position.
  10. Once unit starts to prime watch air relief valve on top of filter. When water comes out of the air relief valve - all air has been purged from the filter. Retighten air relief valve and allow a 1 -2 minutes for the pump to prime.
  11. Vacuum as needed.
  12. If unit does not prime redo steps 1-9.
  13. **Turn off all power and disconnect the unit from the power source before any service is performed.**
  14. Any questions may be answered by calling the Technician live at 1-800-636-8866.
- \*When using standard flex vacuum hose it is advisable to remove the white plastic cuff from the vacuum hose. The cuffs are designed to be used in a skimmer, under water, and will draw in air on the suction side causing priming issues and loss of water flow to the vacuum system.



**Hazardous voltage.  
Can shock, burn, or  
cause death.**  
Disconnect power  
before working on  
pump or motor.

# Pump Assembly Diagram



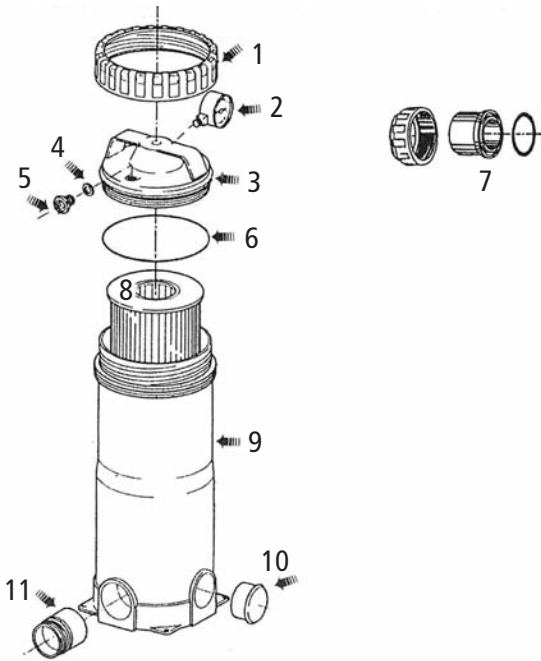
## Item Part Description

- 1 Trap Lid
- 2 Trap Lid O-Ring
- 3 Basket
- 4 Pump Housing
- 5 Diffuser Plate
- 6 Diffuser O-Ring
- 7 Diffuser Assembly
- 8 Diffuser Bolt
- 9 Left Hand Screw
- 10 Gasket Left Hand Screw
- 11 Champion Impeller 1.5HP
- 12 Pump Seal Set
- 13 Seal Plate Gasket

## Item Part Description

- 14 Seal Plate
- 15 3/8" Washer
- 16 3/8" - 16 x 1-1/4" Bolt
- 17 3/8" - 16 x 7/8"
- 18 Motor 1.5HP
- 19 Motor Support Strip
- 20 Motor Support Base
- 21 Hex Screw 1/4" x 1-1/4"
- 22 Drain Plug O-ring
- 23 3/8" Drain Plug

# Filter Assembly Diagram



Item	Part	Description
1	205101	Lock Ring
2	205102	Guage
3	205103	Filter Head
4	205104	O-Ring for Bleed Plug
5	205105	Bleed Plug
6	205106	O-Ring for Filter Head
7	UF5010A	1-1/2" Female Slip Union
8	ELE150	150 sq.ft. Filter Element
9	205109	150 sq.ft. Filter
10	205111	Plug
11	UF5050	2" Male Slip x 1-1/2" Union Thread
12	205003	Bleed Pipe 1/2" Diameter

# Troubleshooting



## **MOTOR WILL NOT START**

1. Check Circuit Breakers
2. Check for incorrect or loose wire connections.
3. Make sure the correct power supply is being used.
4. Any on/off switch or pneumatic switch should be in the "on" mode.

## **MOTOR OVERHEATING AND CYCLING ON AND OFF**

1. Check for incorrect or loose wire connections.
2. Check for low voltage supply (frequently caused by undersized wire).
3. Make sure the motor gets a fresh air supply and the vents are kept unclogged.

## **MOTOR MAKES HUMMING NOISE BUT WILL NOT START**

1. Make sure motor shaft turns free.
2. Check for jammed impeller or an obstruction in casing.
3. Check for low voltage and undersized wire.

## **PUMP WILL NOT PRIME**

1. Make sure pump is installed at the proper level and the plumbing lines have been correctly installed to allow the water to enter pump freely.
2. Open air control valves to release any possible air lock.
3. Make sure all suction and discharge lines are clear and unobstructed and all valves are opened.
4. Check for air leaks in the suction line.
5. Remove white cuff from flex hose.

## **LOW WATER FLOW**

1. Check filter pressure gauge, filter may need cleaning.
2. Check for clogged plumbing lines.
3. Check for worn or damaged impeller.
4. Check for low voltage.

## **WATER LEAKS**

1. Check contamination or damage to shaft rotary seal. Replace if necessary.
2. Check compression fitting (union connectors), make sure they are properly aligned and secured. Hand tighten only. Do not use tools.
3. Make sure the O-ring is properly sealed and not damaged.

## **NOISES**

1. Check plumbing vibration – make sure lines are adequately supported.
2. Check for cavitation, due to obstruction in or undersized suction line.

# 1 Year Limited Warranty

Call 800.636.8866 for info on  
Extended Warranty Plans starting at \$29  
for an additional year



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