

Powr-Flite[®]

OPERATOR'S MANUAL

PFX1385MAX Black Max 13 Gallon Heated Extractor



**WARNING: OPERATOR MUST READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE OPERATING THIS EQUIPMENT.**

Save These Instructions

Congratulations on your purchase of a full size extractor. You are now equipped to handle any and all commercial carpet cleaning jobs. Your new unit is a high quality, precision-made product. All parts used in the manufacturing of this unit have passed rigid quality control standards prior to assembly. Please safeguard the original receipt / invoice. If you experience any problems with your unit during the warranty period, the original receipt / invoice will act as proof of purchase.

Shipping and Damage

This equipment is thoroughly inspected, tested, and packaged to provide equipment in good operating condition. It is beyond our control after the equipment is turned over to a freight carrier. The freight carrier received and signed for the equipment in good condition. Consequently, it is most important to protect your interest by carefully complying with the following instructions: Please inspect your cartons for any damage (including concealed damage) that might have occurred during shipment. Any damage is the responsibility of the freight carrier and should be reported to the freight carrier immediately. It is your responsibility to issue a claim and to receive compensation from the freight carrier for any damage done in transit. Damage of this sort is not warranted.

IMPORTANT SAFETY INSTRUCTIONS

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS UNIT

Read and understand this owner's manual and all labels on the unit before operating. Safety is a combination of common sense, staying alert and knowing how your unit works. Use this unit only as described in this manual. Use only manufacturer's recommended attachments. To reduce the risk of personal injury or damage to your unit use only recommended accessories.

WARNING To avoid fire, DO NOT use with a flammable or combustible liquid or clean floor.

WARNING To avoid electric shock, DO NOT expose to rain. Store Indoors.

When using this full size extractor, basic precautions should always be followed, including the following:

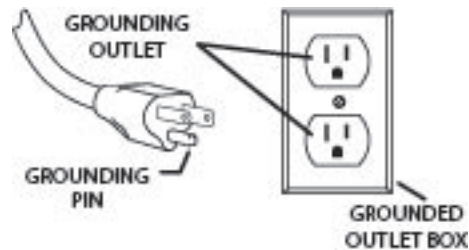
- 1) DO NOT leave unit when plugged in. Unplug from outlet when not in use and before servicing.
- 2) DO NOT allow unit to be used as a toy. Close attention is necessary when used around or near children.
- 3) Use only as described in this manual. Use only manufacturer's recommended attachments.
- 4) DO NOT use with damaged cord or plug. If unit is not working properly because it has been dropped, dropped into water, left outdoors, or damaged in any way, contact a service center
- 5) DO NOT handle plug or appliance with wet hands.
- 6) DO NOT put any objects into openings.
DO NOT use with any opening blocked: keep free of dust, lint, hair, or anything that may reduce air flow.
- 7) Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- 8) DO NOT pick up anything that is smoking or burning such as cigarettes, matches, or hot ashes.
- 9) DO NOT use to pick up hazardous chemicals.
- 10) Turn off all controls before unplugging.
- 11) Turn unit off immediately if foam or liquid comes from machine exhaust. Empty & clean out recovery (dirty) tank and use defoamer to correct the problem.
- 12) DO NOT use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- 13) DO NOT use where oxygen or anesthetics are used.
- 14) Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety.
- 15) This unit must be connected to a properly grounded outlet only. See grounding instructions.

Grounding Instructions

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk electric shock. This machine is equipped with a cord having an equipment -grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 115-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A



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PROTECT THE ENVIROMENT
Please dispose of packaging materials in an enviromentally safe way according to local waste disposal regulations.



Always remember to recycle.

General Instructions for the Full Size Series Extractors

Follow these easy step by step instructions to ensure proper operating performance.

1. Fill up the fresh water solution tank with tap water that is 120-135° F (49-57°C) degrees and approved carpet cleaning chemical if you are not pre-spraying your chemical on the carpet.
2. Attach two 12 gauge extension cords (NOT INCLUDED) (one cord for non-heated models) to each of the pigtail cords located on the lower backside of the unit. The red pigtail powers the heater while the black pigtail powers the vacuum motors and pump.
3. Plug each extension cord into a **SEPARATE** and grounded 20 amp wall socket circuits, when this is accomplished the green indicator light will be lit (on heated models).
4. Attach the hose system to the unit and to your carpet wand.
5. Turn on the heater and the pump to the "ON" position, (only pump on non-heated models) when the heater is on the orange indicator light on the switch panel will be lit.
6. With the solution line attached to the wand and the machine, prime the pump by squeezing the trigger on the wand releasing the water (hold wand tip over solution tank to put water back into solution tank). This will pump water into the heater and get any air out of the solution line. Let the heater heat up, this will take 3 to 5 minutes. *Prime pump on 400 p.s.i. models with prime hose (included).
7. Turn vacuum switches to the "ON" position one at a time to begin cleaning.
8. Anyone designated to operate this equipment must, without fail, read and thoroughly understand all instructions and precautions prior to use.
9. Never use equipment out of doors or in the rain.
10. Never use flammable or explosive materials in or around this equipment!!!
11. When recovery tank is full, empty by using drain hose at rear of machine. If a pail is used to empty the recovery tank, do not use the same pail to fill the solution tank as this can result in putting dirt and grit into the solution line that can plug filters, orifices, and generally degrade the solution line system (do not reuse solution).
12. To empty solution tank, detach the wand from the end of the vacuum hose and insert the vacuum hose into the solution tank. Turn the vacuum switches to "ON" position and transfer solution to recovery tank and dispose of as outlined in #11. Clean vacuum stack filter at this time.

Maintenance

To receive reliable service from this equipment, regular daily maintenance is a requirement. Fabric cleaning, both carpet and upholstery, are very dirty environments for any equipment.

The following recommendations are offered.

1. Keep the equipment clean, both inside and out.
2. Lubricate brass quick disconnects and drain valves with a quality lubricant such as WD-40®.
3. Flush solution systems after use with clear, clean water. (A white vinegar solution may also be used). This will counter-act hard water and alkaline deposits and aid in keeping orifices clean.
4. Do not allow fluid either in solution or waste tank to sit overnight. The unit should be emptied and cleaned daily.
5. Clean the strainer in the solution tank, the filters on the vacuum stack in recovery tank and all lint filters in the inlet or vacuum tanks daily.
6. Do not use the same receptacle (pail) to fill solution tank that has been used to remove waste water from recovery tank.
7. When the unit is not in use, leave the vacuum tank lid open.
8. At the end of each day, run the vacuum for 3 minutes with lid open and filter off.

Safety Precautions

These precautions are designed with the safety of the operator, the equipment, and others in mind and must be followed at all times to avoid serious personal harm and/or death, and damage to the unit.

1. Never use equipment near or around flammable or explosive materials, fuels, or solvents.
2. Never lift the machine by the drain hose.
3. Do not allow the unit to freeze!
4. The equipment was not designed to be used outdoors or in the rain.
5. Do not operate in standing water.
6. Wear safety equipment and clothing to protect from extremely hot water.
7. Do not operate equipment under any unsafe condition.
8. Common sense is a powerful force in protecting the operator, the equipment and others from serious damage injury and/or death.

Storage of Equipment

1. Store extractor indoors in dry area.
2. Recovery and solution tank should be empty and clean when the extractor is not in use.
3. Leave the recovery lid and dump valve open to air out the recovery tank.
4. Do not store in freezing temperature.
5. A small amount of windshield washer fluid, available at an auto supply, may be left in the pump and internal solution line for protection against freezing.

Warnings

1. Do not break off or pull the grounding prong on the plug.
2. Do not attempt repair on a warranted machine unless instructions to perform it by an authorized shop are obtained from the factory.
3. Do not use citrus-based (D-Limonene) cleaners in this machine.
4. Do not use cleaning chemicals in this machine except those recommended for steam-type extraction equipment. The use of any chemicals with abrasive additives voids the warranty.
5. Do not use any replacement parts except those specified on the parts list. Performance of the machine could be affected if substitutions are made.
6. Do not use water in excess of 140° F (60° C) through the pump system. It could damage the seals and polypropylene casing of the diaphragm pump.
7. Follow maintenance schedule strictly.
8. Failure to comply with the above warnings instructions will void the warranty.

ONE LAST REMINDER

Read All Instructions, Warning and Cautions Before Using. These guidelines are presented for your protection and convenience. Please read them carefully, since failure to heed these precautions could result in discomfort or injury. When using an electrical appliance, basic safety precautions should always be followed.

Troubleshooting Information

ELECTRICAL SYSTEM

PROBLEM	POSSIBLE CAUSE	SOLUTION
No electrical power.	<ol style="list-style-type: none"> 1. Defective power cord. 2. Circuit breaker off or fuse blown. 	<ol style="list-style-type: none"> 1. Replace 2. Turn circuit breaker on or replace fuse. Unplug any equipment using the same circuit.
Switch is turned on. Intermittent power to motor(s).	<ol style="list-style-type: none"> 1. Faulty electrical cable. 2. Defective switches. 3. Loose terminal. 	<ol style="list-style-type: none"> 1. Repair or replace. 2. Replace. 3. Replace.
Electrical Shock	<ol style="list-style-type: none"> 1. Equipment not grounded. 	<ol style="list-style-type: none"> 1. Locate grounded outlet.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Vacuum motor on, low or no vacuum at wand.	<ol style="list-style-type: none"> 1. Drain hose open. 2. Defective vacuum hose Kinks in vacuum hose. 3. Vacuum disconnected. 4. Damaged recovery tank 5. Lint clogging ball type shutoff screen. 6. Loose hose connection 7. Vacuum motor exhaust blocked. 	<ol style="list-style-type: none"> 1. Close drain hose. 2. Repair or replace hose. 3. Open machine, connect vacuum hose to recovery tank. 4. Replace tank lid. Recovery tank lid must be closed. 5. Clean out fibers and accumulated dirt from screen. 6. Check for leaks between stand pipe and around clamps and cuffs vacuum motor. Replace damaged hose(s). 7. Check air flow by removing hose from machine and feel the exhaust under the machine. Remove obstruction.
Motor running and no vacuum and no exhaust from the blowport.	<ol style="list-style-type: none"> 1. Faulty vacuum motor. 2. Water shutoff closed. 	<ol style="list-style-type: none"> 1. Replace. 2. Clean water shutoff screen.
Premature closing of ball type shutoff. Ball type shutoff failing to release after recovery tank is drained.	<ol style="list-style-type: none"> 1. Dirty or clogged shut off filter screen. 2. Ball coated with detergent or other foreign material. 3. Screen slightly out of round. 	<ol style="list-style-type: none"> 1. Remove and clean screen. 2. Remove and rinse ball with clean water. 3. Bend screen by squeezing slightly by hand until there is an obvious space between ball and inside of screen.

Foam/dirty solution coming out of vacuum exhaust port.	<ol style="list-style-type: none"> 1. Foam carpet bypassing water shutoff. 2. Elbow in vacuum tank is not positioned correctly. 	<ol style="list-style-type: none"> 1. Use additional defoamer. 2. The elbow should be pointed directly at the side wall of the tank away from the ball type shutoff.
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PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump motor but no spray through jets.	<ol style="list-style-type: none"> 1. Clogged or faulty solution control valve. 2. Clogged or faulty quick disconnect on housing. 3. Punctured pump diaphragm. 4. Clogged jets 	<ol style="list-style-type: none"> 1. Check intake on valve and remove lint or other foreign material. 2. Depress plunger on solution hose against inside wall of solution tank. If solution is flowing at this point, the system is OK If no solution flows, check the quick disconnect for lint and other foreign matter. 3. Replace with diaphragm repair kit. 4. Clean jets on wand or tool.
Uneven spray from jet. Spray weak or uneven.	<ol style="list-style-type: none"> 1. Clogged strainer in solution tank. 2. Clogged jet. 	<ol style="list-style-type: none"> 1. Unscrew strainer and remove lint and any other foreign material from screen. 2. Remove and clean.
Leaking or stuck solution valve.	<ol style="list-style-type: none"> 1. Foreign material in valve. 2. Loose brass hex nut. 3. Valve or seals worn 	<ol style="list-style-type: none"> 1. Remove brass hex plug, clean valve and replace. 2. Reseal hex and plug. 3. Replace worn parts with solution valve repair kit.
Pump motor not working.	<ol style="list-style-type: none"> 1. Loose wiring 2. Defective pump pressure switch. 3. Motor burnout 	<ol style="list-style-type: none"> 1. Tighten wiring 2. Replace with new pressure switch assembly. 3. Replace pump motor
Pump pressure low	<ol style="list-style-type: none"> 1. Clogged screens on strainer in solution tank. 2. Punctured pump diaphragm. 3. Pump not primed 	<ol style="list-style-type: none"> 1. Unscrew strainer remove lint and any other foreign material from screen. 2. Replace with diaphragm repair kit. 3. Plug priming hose into solution connection and place end in solution tank. Run pump for 4 minutes.
Pump pressure varies.	<ol style="list-style-type: none"> 1. Worn carbon brushes. 2. Defective pump pressure control switch. 	<ol style="list-style-type: none"> 1. Replace brushes. 2. Replace.

For warranty information go to www.Powr-Flite.com

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A Tacony Company

3101 Wichita Court • Fort Worth, TX 76140-1755
1-800-880-2913 • Fax: 1-817-551-0719