

# ROTOVAC



***CFX – Power Pod***  
***CONTINUOUS FLOW EXTRACTOR***  
***Owner's Manual***

CFX 11/05/2009

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## **Overview**

The super compact **CFX Power Pod** is much smaller than a traditional extractor. It can be easily transported in any small car or fit into any crowded van. The **Power Pod** utilizes a solution hose with a faucet adapter set that attaches to any faucet or water source for an unlimited supply of clean water and automatically pumps out the recovered waste water to any toilet or drain. The **Power Pod** allows you to clean non stop and eliminate the task of filling and emptying with buckets.

**“Say goodbye to the bucket brigade!”**

## **Operator’s responsibility**

Proper operation and maintenance are vital in the performance of the **Power Pod**. It is therefore extremely important that the **Power Pod** training video is watched and this operations manual is read and completely understood before operating. The training video is also available online at [www.rotovac.com](http://www.rotovac.com)

## **CALL BEFORE USING FOR THE FIRST TIME**

Before using the **Power Pod** for the first time, read the owners manual, watch the training video, write down any questions that you may have and then call Rotovac toll-free for valuable tips and pointers.

**1-888-768-6822. (8:00 a.m. to 5:00 p.m. Monday - Friday P.S.T.)**

Training video is available on line at: [www.rotovac.com](http://www.rotovac.com)

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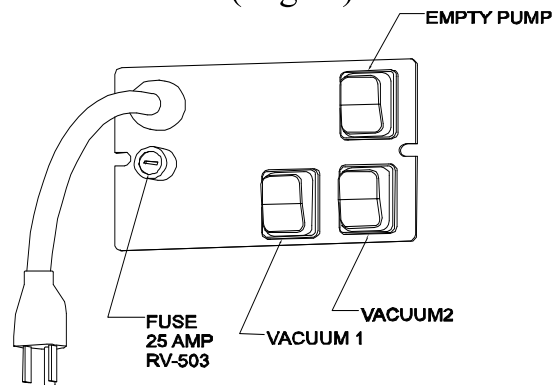
## Learning Curve

Your first job using the **Power Pod** will take longer than normal because of the “**learning curve**” involved. Once you have mastered the procedures of hooking up to the faucet, pre-spraying technique, hose-cord management and machine positioning, you will find that the **Power Pod** is much easier and faster to use than a traditional portable extractor.

## Understand the System

Understanding exactly how the **Power Pod** works is extremely important for trouble free operation. The empty pump is activated by a float switch located at the base of the float switch tube. (Fig B). As water starts to fill the recovery tank the float switch floats up and turns on the empty pump. As the water is pumped out the float switch slides down and turns off the empty pump. The float switch must be free to slide up and down or the pump may be stuck in the on or off mode. Remove float switch cover (Fig B) to inspect and keep float switch clean and free of debris. The empty pump hose screen filter should be kept clean and must rest on the **very bottom** of the recovery tank for proper operation. Watch the training video before using. Training video is available on line at [www.rotovac.com](http://www.rotovac.com)

(Fig B). **Do not allow the empty pump to run “DRY” without some sort of foam or water going through it for more than a few seconds or the impeller may seize and need service (Page 7)**



## Controls

## FIGURE A

## Operation

### 1) Attach solution hose to faucet:

The faucet adaptor set will attach to 95% of all standard kitchen or bathroom faucets. Use a small pair of pliers to unscrew the aerator along with a small towel to prevent scratching. If sink faucets are not an option, there is also an adaptor to hook up to any shower head or garden faucet. (Shower heads are all the same thread size) After you have attached your clean water solution hose to a water source, turn on the water and check for any leaks. A small leak at the connection may be stopped by adding an extra rubber washer or just drape a cloth over the leak to contain it into the drain. Also check **under the sink** to make sure there are no leaks.

### 2) Attach 50' clear empty hose to Power Pod:

Secure the discharge end to sink or toilet making sure it will not fall out and flood the area with dirty water. **SUPER IMPORTANT:** Make sure to **secure your clear empty hose** into a toilet or drain so that it will not accidentally fall out.

### 3) Prime the Empty Pump:

Plug in Power pod and turn on the empty pump only (not vacuum switches) Attach clean water solution hose **female quick connect end** to the **male quick connect** on the front of the **Power Pod** just below the vacuum barb.

Recovery tank should now start to fill with water. Before the water reaches the bottom of the porthole window, the empty pump should turn on and then off, indicating proper operation of the float switch and the pump.

**SUPER IMPORTANT:** Allow the empty pump to run several on/off cycles until the entire 50' clear empty hose is full and the water coming out the far end into the drain. This is to assure that the empty pump will not run dry. If the empty pump is not functioning properly see pump troubleshooting on page 9.

4) **Pre Spray Carpet:** Using a garden style **pump-up sprayer** or an **in line sprayer**, pre-spray the carpet to be cleaned with a **non foaming** “extraction” style cleaning detergent. Do not use a foaming “shampoo” style detergent as this could cause over foaming in the recovery tank. **Apply extra to heavily soiled areas** and less on the lightly soiled areas. Pre-spray approximately 200 sq feet at a time to allow for some “dwell time” for the cleaning detergent to loosen the soil.

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## 5) Start Cleaning:

After confirming the empty pump is functioning properly, **and the 50' clear empty hose is full of water**, disconnect the clean water solution hose quick connect from the front of the **Power Pod** and attach to your cleaning tool. **Leave the empty pump switch on**, turn on **both vacuum motors** and start cleaning. The empty pump should now continually turn on and off as the dirty water enters and exits the recovery tank. As you are cleaning, periodically check to make sure the empty pump is working and the **Power Pod** is functioning properly.

## Maintenance

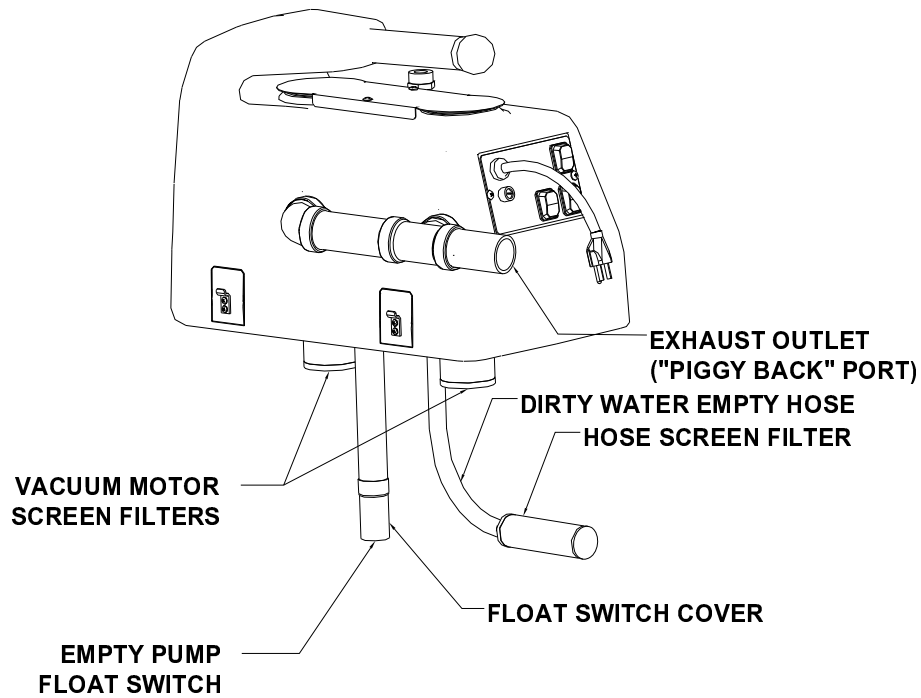
Keep recovery tank clean so that debris does not build up and cause empty pump float switch to get stuck. Always make sure that the screen filter on the end of the empty pump hose is clean and resting at the **very bottom** of the recovery tank to prevent it from pumping air instead of water (Fig B). Remove filter bag to clean out debris. Unscrew and clean out the diffuser tube in the recovery tank as needed (Fig C). When replacing the diffuser tube make sure the 6 outlet holes are facing to the **sides of the recovery tank** (Fig C). Make sure float switch is clean and free to move up and down (Fig B). When replacing upper housing onto the lower recovery tank, make sure the empty pump hose feeds down to the **very bottom of the tank** so that the screen pick up filter is resting on the **very bottom** of the recovery tank. Switches face to the back of the CFX and the vacuum hose barb faces to the front.

**SUPER IMPORTANT** Always make sure the end of the dirty water empty hose does not fall out of the drain or toilet by running hose under toilet seat or securing to faucet. Also check to make sure your clean water hose connection at the faucet is not leaking **above or below the sink**. **An extra rubber washer or** draping a small towel over the faucet will help contain any small leak you may encounter.

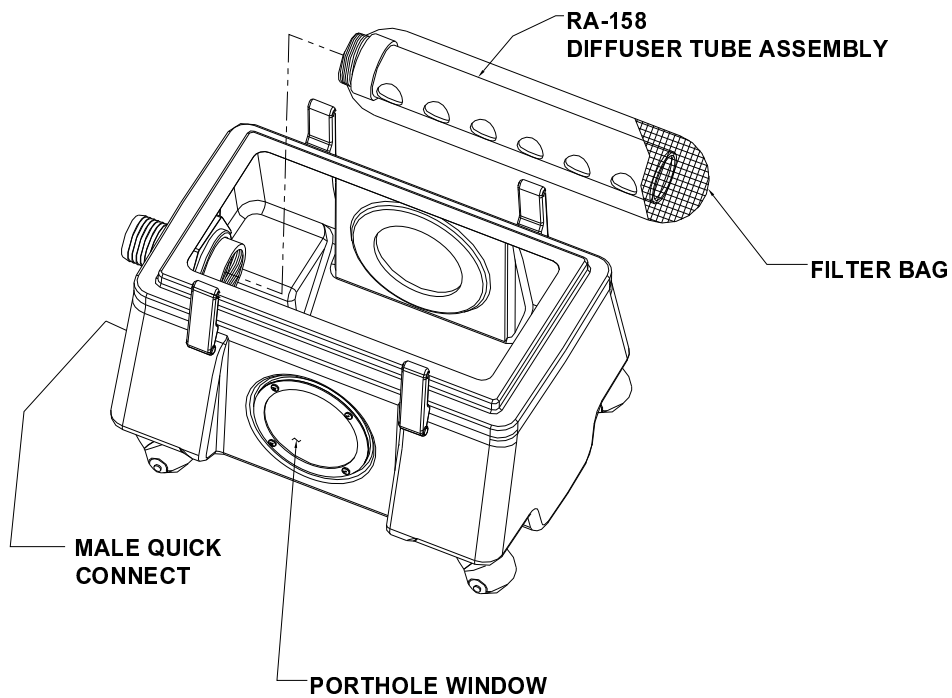
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## **Precautions**

- Make sure the float switch is free to move up and down to activate the empty pump (Fig B)
  - Make sure the empty pump screen filter on the end of the hose is resting on the **very bottom** of the recovery tank (Fig B)
  - Make sure your diffuser tube in the recovery tank is screwed in with the 6 holes **facing the sides** for proper separation of air and water and filter bag is clean (Fig C). If the diffuser tube is not properly aligned, water may get sucked up into the vacuum motors and shoot out the side exhausts. Clean out the diffuser tube and recovery tank periodically as needed.
  - When water or foam gets sucked up into vacuum motors, run the vacuum motors dry for about two minutes before storing.
  - Keep all vacuum and pump screen filters clean for maximum performance.
  - When doing various tasks such as flood extraction, be careful not to suck up more water than the empty pump can keep up with or the vacuum motors will suck up water and shoot it out the side exhausts. Pumps up to 6 gpm.
  - Always use a grounded 3 prong electrical outlet and wear rubber soled shoes when operating.
  - Store in a dry place, do not allow electrical components to get wet.
  - Only trained personnel who have read this manual and understand completely the information herein should operate the ***Power Pod.***
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**FIGURE B**



**FIGURE C**

## **Empty Pump Repair**

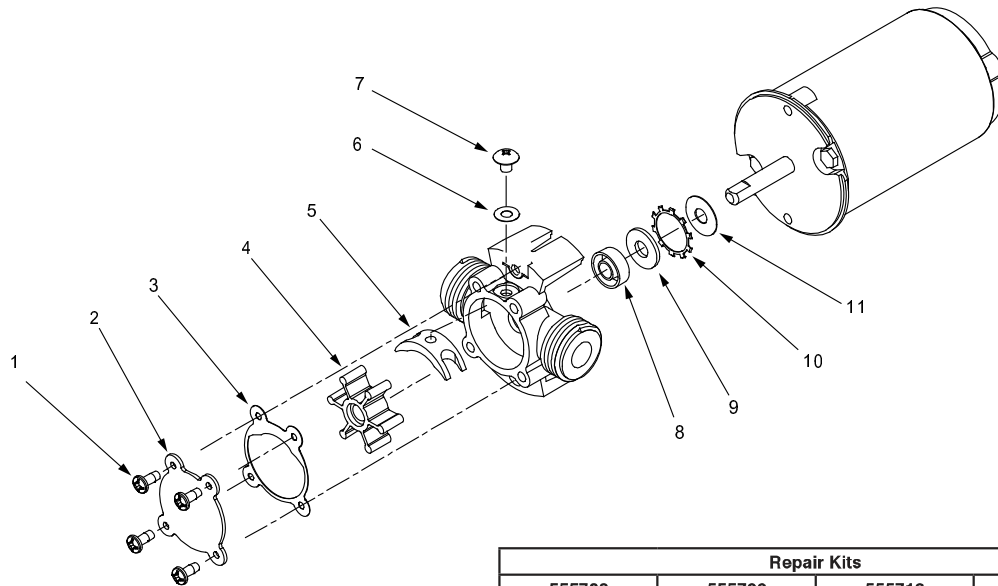
TO REPLACE IMPELLER: Replace impeller when it has become worn or damaged.

- a. Remove cover plate mounting screws.
- b. Remove cover plate and cover plate gasket.
- c. Slide damaged or worn impeller off motor shaft.
- d. Clean the inside of the pump head and the cover gasket sealing surface. Make certain that there are no foreign materials that would obstruct the impeller's operation.
- e. Apply petroleum jelly or similar lubricant to the inside of the pump head and the outside diameter of the impeller.
- f. Align the flat on the inside of the impeller shaft bore with the flat on the motor shaft. Push the impeller into place, while twisting the impeller vanes in a clockwise rotation.
- g. Place new gasket on pump head face, align holes and replace cover.
- h. Tighten cover plate mounting screws evenly and snugly.

**NOTE: The pump will still work even with a couple of impeller blades broken.**

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		Repair Kits			
		555702 HRK-360S	555706 IRK-360	555713 IRK-360S	555714 ISRK-360S
Item No.	Description	Component Quantity			
1	Screw, volute cover	4	--	--	--
2	Volute cover, SST	1	--	--	--
3	Cover gasket, Nitrile	2222			
4	Impeller, Buna-N w/SST insert	2	--	2	2
4	Impeller, Buna-N w/brass insert	--	2	--	--
5	Cam, SST	1	--	--	--
6	Gasket, fiber washer, cam screw	1	--	--	--
7	Screw, cam	1	---	--	--
8	U-cup seal, Viton	--	--	--	1
9	Felt washer	--	--	--	1
10	Internal retaining ring	--	--	--	1
11	Slinger washer, neoprene	--	--	--	1

## **CFX TROUBLE SHOOTING GUIDE**

### **1. Empty Pump not working:**

**Always prime empty pump before cleaning.**

**Instructions to prime empty pump;** Attach clean water solution hose female quick connect to male quick connect on front of **Power Pod**. This will start filling the recovery tank with clean water. When water level reaches about 2 inches, the empty pump should turn on for a few seconds and then turn off as the water level goes down to 1 inch. Allow empty pump to run until the 50' clear empty hose is completely full of water and coming out the far end before turning on vacuum motors to start cleaning. If pump is not working, unscrew hose from top of **Power Pod** and pour a little water into pump from top fitting (Fig B). The water should lubricate the rubber impeller to get the empty pump working on next attempt. Check to make sure float switch is working and is not impaired by any debris (Fig B). If still not working, the impeller may have a broken fin and need service (page 8) Remove pump cover plate and visually inspect black rubber impeller (Fig B opposite side) If one of the six fins is broken, remove the broken fin and the pump should still work - or replace the entire impeller with a new one (page 8). **Do not allow empty pump to run dry** for more than a few seconds or the impeller could overheat and get stuck. Look in through the side porthole to make sure the empty pump hose screen filter is resting on the **very bottom** of the recovery tank to insure it does not suck air instead of water when the pump switch activates (Fig B). Check to make sure the float switch moves freely up and down (Fig B)

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## 2 Water Shooting Out Exhaust

**A)** This is usually caused by using too much foaming cleaning detergent or the carpet has too much foaming residue in it from past cleanings. Sucking some defoamer into the end of the vacuum hose will temporarily kill the foam. Better yet, soaking a small sponge with liquid defoamer and sucking it into the front of the Power Pod will cause the sponge to be lodged in the diffuser tube to kill the foam as it enters the tank. The sponge method will kill the foam for a longer period of time than only sucking defoamer into the machine.

**B)** Make sure empty pump is working properly. Check the empty pump screen that it is clean and resting on **very bottom** of recovery tank. Check that the empty pump float switch that it is free to move up and down and is working properly.

**C)** Check to make sure there is nothing clogging the empty hose either before or after the pump head. Sometimes a broken impeller blade could be stuck in there and blocking the flow.

**D)** Make sure diffuser tube is clean and holes are pointing towards the sides of the tank (Fig C)

## 3 Motors not working

Check switches for loose or disconnected wires. Check electrical outlet. Check fuse.

## 4 Other problems:

Call our service department toll free at (888)768-6822 between the hours of 8:00am and 5:00pm (pst) Monday-Friday

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## **WARRANTY**

Rotovac Corporation products are warranted to be free of defects in material for 1 year as noted below:

During this warranty period, we will repair or replace, at our sole option, free of charge, any parts shown to be defective in either material or workmanship. Said parts must be returned with postage or freight pre-paid. Specific parts, such as switches, vacuum motors, pumps, fittings, etc., are also warranted for a period of 1 year from date of original purchase.

This warranty is for replacement of defective parts or workmanship only. **IT DOES NOT PROVIDE FOR REPLACEMENT OF COMPLETE UNITS DUE TO DEFECTIVE PARTS.** It does NOT cover normal wear items such as hoses, power cords, bumpers, carbon brushes, gaskets, etc., which require replacement as a result of ordinary usage. Also, failures caused by abuse, neglect, alterations or operation contrary to manufacturer's recommendations are not warranted.

Replacement parts are warranted only for the remainder of the original warranty period.

This warranty does not cover labor or other charges in connection with replacement parts. **NO LOCAL SERVICE OR REPAIR CHARGES ARE ALLOWED UNLESS PRIOR AUTHORIZATION IS OBTAINED.**

There are no other warranties, expressed or implied, made with respect to this equipment. The manufacturer assumes no responsibility for damages resulting from the use or misuse of this equipment. **NOTE: This warranty is not transferable.**

## **Rotovac Corporation**

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