



# **CFR ALTRA SERIES**

**Altra Pro 400**  
**Altra Pro 400 Heat**  
**Altra Pro 1000**

---

## **MANUAL**



7GU023

## TABLE OF CONTENTS

Unpacking your new Altra Series Cleaning Station .....	1
INTRODUCTION.....	2
SAFETY INSTRUCTIONS .....	3
GROUNDING INSTRUCTIONS .....	4
SET UP INSTRUCTION.....	4
Filter Installation.....	4
OPERATING INSTRUCTIONS .....	5
MAINTENANCE	
Daily Maintenance.....	9
Periodic Maintenance.....	10
SPECIFICATIONS	
Altra PRO 400.....	
Altra PRO HEAT 400 .....	14
Altra Pro 1000.....	17
TROUBLE SHOOTING GUIDE.....	18
PLANOGRAPHS	
Altra 400	
Altra Pro 400 Back Panel Assembly.....	14
Altra 400/Heat	
Altra Pro 400 Tank Assembly.....	16
Altra Pro 400 Pump/Motor Assembly .....	18
Altra Pro 400 Heat	
Altra Pro 400 Heat Base Assembly .....	20
Altra Pro 400 Heat Final Assembly .....	22
Altra Pro Heat Back Panel Assembly .....	24
Altra Pro 1000	
Altra Pro 1000 Base Assembly .....	26
Altra Pro 1000 Tank Assembly.....	28
Altra Pro 1000 Pump Motor Assembly .....	30
WIRING DIAGRAMS	
Altra Pro 1000 115 V.....	32
Warranty.....	35

Congratulations on your purchase of a CFR Altra Series Cleaning Station. Read this entire manual before operating or servicing the Altra.

## **Unpacking your new Altra Series Cleaning Station**

The Altra Series Cleaning Station was thoroughly inspected, tested, and packaged to deliver the equipment in good operating condition. The freight carrier received and signed for the equipment in good condition. Damage can occur during shipping and to protect your interest, all cartons must be inspected for damage (including any concealed damage) that might have occurred during shipment. Any damage is the responsibility of the freight carrier and should be reported immediately to the carrier. It is your responsibility to issue a claim and to receive compensation from the freight carrier for any damage done in transit. Shipping damage is not warranted.

### **CAUTION**

---

#### **Read All Instructions, Warnings and Cautions Before Using**

These guidelines are provided for your protection and convenience. Please read them carefully. If you have any questions regarding the use of your equipment call CFR Technical Service at 888.878.4190. Failure to adhere to instructions provided can potentially void any warranties. Precautions and safety warnings are provided for your protection. Failure to observe these warnings could result in personal injury and damage to the equipment. When using an electrical appliance, basic safety precautions should always be followed.

### **WARNING**

To avoid fire, do not use with a flammable or combustible liquid to clean floor.

## INTRODUCTION

The ALTRA Series cleaning stations are the industry's most powerful and versatile systems for the restoration cleaning of carpets, hard surfaces, upholstery, and modular office panels.

### **Altra Pro 400**

The Altra Pro 400 is designed for carpet, upholstery and hard surface cleaning and restoration.

### **Altra Pro Heat 400**

The Altra Pro Heat 400 with its built-in 2400 watt heater, is one of the most powerful portable cleaning systems on the market.

### **Altra Pro 1000**

The Altra Pro 1000 with 1,000 p.s.i. is the most powerful portable cleaning system on the market.

## **IMPORTANT SAFETY INSTRUCTIONS**

The Altra Series is intended for use only as described in this manual with recommended attachments and chemicals. Using the Altra Station in any manner not described in this manual can void the warranty. Use only manufacturer s recommended accessories.

### **READ ALL INSTRUCTIONS BEFORE USING**

---

#### **THIS PRODUCT IS INTENDED FOR COMMERCIAL USE ONLY**

When using a electrical piece of equipment basic precautions should be followed, including the following:

***WARNING! To reduce the risk of electric shock, fire, or injury:***

1. Operators must read and understand this manual completely before operating the equipment.
2. Make sure all caution, warning, and instructional decals are in place and legible. Replace damaged or missing labels.
3. Do not leave unit when plugged in. Unplug from outlet when not in use and before servicing.
4. Connect to a proper grounded outlet only. *(See Grounding Instructions.)*
5. Do not use with damaged cord or plug.
6. Do not handle plug or unit with wet hands.
7. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
8. Turn off all controls before unplugging.
9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
11. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
12. Do not use without filters in place.
13. Use extra care when cleaning stairs.
14. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
15. Do not expose to rain. Store indoors.
16. If unit is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, take it to a local CFR service center.

### GROUNDING INSTRUCTIONS

This unit must be grounded. Grounding provides the path of least resistance for electric current, in the event of malfunction or breakdown, to reduce the risk of electric shock. This unit 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 grounded outlet installed by a qualified electrician.

### SET UP INSTRUCTION

1. Fill out Warranty Card and return it to CFR.

#### Filter Installation

***Inlet Basket w/prefilter*** Install inlet basket with prefilter in it into the tank opening. Dump and clean debris each time water is added and at the end of each cleaning job.

***Main Filter*** Wet the rim of the filter and position it on the filter mound. Twist and slide over the mound by pushing downward.

***Pump Protection Filter*** The stainless steel screen filter is installed at the bottom of the tank inside the recycling filter.

## OPERATING INSTRUCTIONS

1. Check to make sure pump protection and main filters are securely in place. The main filter must be securely seated on the tank bottom. To properly seat the main filter, rotate the filter 1/8 turn while pushing down.
2. Fill tank with water to a depth of 2 (5 cm) below bottom of upper float level switch (at rear of tank). Maximum in-tank water temperature to be used is 120° F to 130° F (49° to 54° C)

**CAUTION:** Water temperature above 140°F (60°C) will cause the tank to buckle from the strong vacuum suction.

3. Add in-tank cleaner per chemical label use instructions. In addition, pre-spraying is often desirable and will assist in producing the fastest and best cleaning results.

**NOTE:** Use caution when moving machine on inclines with fluid in the tank to prevent fluid from entering the vacuum standpipe at back of machine and flooding the vacuum.

4. Install inlet filter screen into top of tank.
5. Add 3 ounces of Defoam product to the inlet filter.
6. Connect power cords to twist lock connectors and plug cords into one 20 and one 15 amp or larger wall outlets on separate circuits.
7. Attach fluid hose to the quick-disconnect on the front of the machine
8. Prime pump by re-circulating fluid through fluid hose (without a nozzle attached) into the tank for 30 to 60 seconds. Re-circulating the fluid primes the pump and expels trapped air from the system
9. Attach the desired tool to the valve end of the hose assembly and of the hose assembly.
10. Close tank cover, attach hose assembly to tank cover, turn on vacuum, pump, and heater switches.
11. Clean surface with tool attached to hose assembly. **CAUTION:** The hose trigger valve will get hot during use when the heater is turned on for Altra Pro 400 heat.
12. During the cleaning process, the fluid level will be reduced and the lower level float switch will shut off the pump. When the pump shuts off, drain and rinse tank, rinse recycling filter, refill with fresh water and cleaning chemical, and continue cleaning.

**CAUTION!** When cleaning, monitor foam in the machine's tank. Areas cleaned with other cleaning equipment or chemicals may cause excessive foam to collect in the tank.

**WARNING! EXCESSIVE FOAM IN THE TANK MAY CAUSE VACUUM MOTOR FLOODING AND MACHINE DAMAGE.** Pour one to two ounces of CFR Defoam directly into the tank or into the vacuum hose while the vacuum is running.

When finished cleaning, perform the daily maintenance procedure. Be sure that all filters are cleaned thoroughly and replaced in machine. Leave cover open for drying.

## TOOL USAGE

### Hose Assembly

Attach hose assembly to machine by attaching vacuum hose to the tank lid and the fluid hose to the front of the machine. If the fluid hose is difficult to insert, the system pump pressure can be relieved by pushing the prime switch or dialing down the pressure with the adjusting knob. Do not operate the fluid switch when using the hose assembly and tools.

### Carpets

Place tool on surface to be cleaned and move tool at the rate of a slow walk. Apply cleaning fluid by pushing on the valve lever. When using floor tools, cleaning fluid is applied on the forward stroke only. Use only enough downward pressure on the tools to move them effectively (push and pull stroke). Use of excessive downward pressure on the tools will decrease their efficiency. Always finish cleaning with a dry stroke (closed valve condition). It is very important to keep tools properly seated to the surface being cleaned to produce maximum cleaning effectiveness and minimum drying times. Multiple wet and dry strokes may be used on excessively soiled areas. Clean inline strainer on carpet tool before using tool.

### Upholstery

Place hand tool on surface to be cleaned. Move (pull and push) hand tool at a rate of about one foot per second. Apply cleaning fluid on the pull stroke only. Overlap passes by about 1/4 inch. When cleaning upholstery edges, hold finger over part of tool to prevent over spray. Edges can also be cleaned by placing tool on edge of upholstery and moving it parallel to the edge. Use of excessive downward pressure on the surface will decrease the tool's efficiency. Always finish cleaning with a dry stroke (closed valve condition). It is very important to keep all tools properly seated to the surface being cleaned to produce maximum cleaning effectiveness and minimum drying times. Multiple wet and dry strokes maybe used on excessively soiled areas.

## MAINTENANCE

### Daily Maintenance

To maintain optimum performance the equipment, tools and filters should be cleaned after each use. Replace any filters that cannot be cleaned or are damaged. Nozzles that cannot be cleared should be discarded. Wipe down the equipment with a damp cloth to keep clean and preserve the appearance.

1. Tools and wands

Rinse opening of tool with water to eliminate any debris. Wipe tool with damp cloth and store with head up to prevent clogging of nozzle.

2. Filters

***Inlet Basket w/prefilter*** Dump and clean debris at the end of each operation.

***Main Filter*** Remove the main filter, rinse out and clean thoroughly at the end of each operation.

***Pump Protection Filter*** Rinse at the end of each operation.

***In-Line Strainer Filter*** Disconnect the In-line Strainer Filter by using the quick disconnect coupler. Remove the filter and rinse with water. Remove any debris from the strainer. Keep o-ring and threads of the plug lubricated. CFR DeFoam is a good lubricant or use a non-petroleum based lubricant. This will ensure a tighter seal.

3. Tank

Dump waste water and rinse inside of the tank with pump protection filter intact at the end of each operation. Failure to do this will cause a serious problem to the next operation(s).

## Periodic Maintenance

1. Check power cord for any breaks, separations, or cuts. Make sure the ground pin on the connector is intact or the machine will be unsafe. Make sure the ground pin on all three prongs on the twist lock connector are intact.
2. Check for plugged nozzles when using tools. If streaking occurs during cleaning, a plugged nozzle may be the cause. A plugged or partially plugged nozzle can be identified by holding the tool 5-7" above the surface and checking for an even spray pattern. To clean a plugged nozzle, remove the nozzle and direct pressurized air backwards through the nozzle or backwash the nozzle with water. A convenient method is to insert the nozzle into a garden hose ball valve, tighten the ball valve to a faucet, and turn on the water. (CFR has ball valves available, part #7AX020). Inspect nozzle and repeat cleaning procedure, if necessary. Discard nozzles that cannot be cleared. Tool nozzles wear and must be replaced after 200-250 hours of use.
3. Occasionally open side panel(s) and inspect hose and other connections for leaks. Repair or replace any leaking parts. Always disconnect power cord, before removing side panels.
4. It is very important to monitor machine operating hours for proper maintenance of the motors and pumps. After 700 hours of operation, the vacuum motor brushes should be inspected by an authorized repair station and replaced if worn (length is \_ inches or less). When replacing brushes, carefully insert brushes without crimping brush follower spring.
5. Check vacuum motor performance using a vacuum gauge (CFR #70412A). Place this gauge on the tank inlet fitting with the vacuum turned on. Water lift should be between 120 and 135 inches. If the reading is lower, check for air leaks in the tank, cover gasket, and drain hose.
6. Check pump performance occasionally against built-in pressure gauge.  
*Altra Pro 400/Altra 400 Heat* - Pump running pressure should be  $400 \pm 10$  p.s.i. When pumping fluid through one #04 nozzle, the pressure should be  $340 \pm 20$  p.s.i.  
*Altra Pro 1000* — Pump running pressure should be 1000 p.s.i. When pumping fluid through one #04 nozzle, the pressure should be  $940 \pm 20$  p.s.i.  
If the pumping pressure is outside of this range, check and clean the inlet filters to ensure the pump is getting enough fluid. If the pumping pressure is outside of this range, call your dealer or authorized repair station.
7. For extended storage or between uses in cold climates drain the system and flush pump with automobile windshield washer fluid. If the pump is frozen it can be severely damaged.
8. Check main filter for plugging. Plugged filter will cause problems not only to daily operations but to the equipment itself. Once the filter is plugged, rinsing is not enough. Clean the tank and fill with fresh water. Using filter cleaning nozzle assembly (CFR60567A) with pressure of 400 p.s.i. wash off all debris inside out.

## SPECIFICATIONS — ALTRA PRO 400

Power Cord	Two detachable 35 (10.7 meter) Cords, 12 Ga., 3 Wire, Molded End Plug
Voltage	115 Volts AC, 60 HZ
Amp	Vacuum Motor — 12.75 Amps Pump Motor — 2.57 Amps
Tank Volume	15 Gallons (57 liters)
Fill Level	2 (5 cm) below the bottom of the Vacuum Float Switch.
Vacuum	3 stage with maximum 135 inch of water lift.
Pump Motor	1/3 HP AC Motor
Pump	Plunger Type: 0 to 400 psi.
Float Switches	High float switch for Vacuum shut-off. Low float switch for Pump shut-off.
Weigh	135 lbs (66 kg)
Height	43.5" (110.5 cm)
Width	16" (40.6 cm)
Length	38.5" (98 cm)
Wheels	10 (25 cm) Non-marking wheels.
Casters	4 (10 cm) Non-marking wheels.
Body	Rotationally molded polyethylene.
Machine Handle	Chrome plated steel; secured to machine body with stainless cap nuts.
Filters	Three filters: Inlet Filter, Recycling Filter, and Screen Filter.
Electrical Safety Features	GFCI (Ground Fault Circuit Interrupter): The GFCI protects the operation from transient or accidental grounding in the electrical system. Should the machine develop an unwanted ground, the GFCI reset button will trip and shut off electricity to the vacuum and pump motors.  Circuit Breakers: Overload circuit breakers are placed in both the pump and vacuum circuits to protect against unusually heavy current (ampere) loads. If either breaker trips, the pump motor or vacuum motor is overloaded.

**SPECIFICATIONS — ALTRA PRO 400 Heat**

Power Cord	Two detachable 35 (10.7 meter) Cords, 12 Ga., 3 Wire, Molded End Plug
Voltage	115 Volts AC, 60 HZ
Amp	Vacuum Motor — 12.75 Amps Pump Motor — 2.57 Amps Heater — 18.5 Amps
Tank Volume	15 Gallons (57 liters)
Fill Level	2 (5 cm) below the bottom of the Vacuum Float Switch.
Vacuum	3 stage with maximum 135 inch of water lift.
Pump Motor	1/3 HP AC Motor
Pump	Plunger Type: 0 to 400 psi.
Heater	2400 watts — feeds output fluid hose connection
Float Switches	High float switch for Vacuum shut-off. Low float switch for Pump shut-off.
Weigh	135 lbs (66 kg)
Height	43.5" (110.5 cm)
Width	16" (40.6 cm)
Length	38.5" (98 cm)
Wheels	10 (25 cm) Non-marking wheels.
Casters	4 (10 cm) Non-marking wheels.
Body	Rotationally molded polyethylene.
Machine Handle	Chrome plated steel; secured to machine body with stainless cap nuts.
Filters	Three filters: Inlet Filter, Recycling Filter, and Screen Filter.
Electrical Safety Features	<p>GFCI (Ground Fault Circuit Interrupter): The GFCI protects the operation from transient or accidental grounding in the electrical system. Should the machine develop an unwanted ground, the GFCI reset button will trip and shut off electricity to the vacuum and pump motors.</p> <p>Circuit Breakers: Overload circuit breakers are placed in both the pump and vacuum circuits to protect against unusually heavy current (ampere) loads. If either breaker trips, the pump motor or vacuum motor is overloaded.</p>

**SPECIFICATIONS — ALTRA Pro 1000 / Pro 1000 220/240 Volt**

Power Cord	Two detachable 35 (10.7 meter) Cords, 12 Ga., 3 Wire, Molded End Plug
Voltage	115 Volts AC, 60 HZ /220/240 Volts, AC, 50 HZ
Amp	Vacuum Motor — 12.75 Amps Pump Motor — 14 Amps
Tank Volume	15 Gallons (57 liters)
Fill Level	2 (5 cm) below the bottom of the Vacuum Float Switch.
Vacuum	3 stage with maximum 135 inch of water lift.
Pump Motor	AC Motor
Pump	Triplex Plunger Type: 0 to 1000 p.s.i..
Float Switches	High float switch for Vacuum shut-off. Low float switch for Pump shut-off.
Weigh	135 lbs (66 kg)
Height	43.5" (110.5 cm)
Width	19.5" (49.5 cm)
Length	38.5" (98 cm)
Wheels	10 (25 cm) Non-marking wheels.
Casters	4 (10 cm) Non-marking wheels.
Body	Rotationally molded polyethylene.
Machine Handle	Chrome plated steel; secured to machine body with stainless cap nuts.
Filters	Three filters: Inlet Filter, Recycling Filter, Screen Filter
Electrical Safety Features	GFCI (Ground Fault Circuit Interrupter): The GFCI protects the operation from transient or accidental grounding in the electrical system. Should the machine develop an unwanted ground, the GFCI reset button will trip and shut off electricity to the vacuum and pump motors.  Circuit Breakers: Overload circuit breakers are placed in both the pump and vacuum circuits to protect against unusually heavy current (ampere) loads. If either breaker trips, the pump motor or vacuum motor is overloaded.

**TROUBLE SHOOTING GUIDE**

<p><b>Vacuum or pump will not run</b></p>	<ul style="list-style-type: none"> <li>• Check that electrical cord is firmly seated in wall outlet.</li> <li>• Check and reset building circuit breaker if tripped.</li> <li>• Check GFCI on back of machine and reset if tripped.</li> </ul> <p>NOTE: GFCI and/or circuit breaker may trip if vacuum motor is flooded. Open tank cover and try to run vacuum motor for 10 minutes to dry vacuum motor. If the GFCI trips again, wait 5 minutes, reset and try vacuum again.</p> <ul style="list-style-type: none"> <li>• Check vacuum/pump switch. It should be in the on position.</li> <li>• Check upper float eyes or dots making sure they point up and the lower float eyes point down.</li> </ul>
<p><b>Trips building circuit breaker</b></p>	<ul style="list-style-type: none"> <li>• Circuit is overloaded — move cord to a different wall outlet.</li> <li>• If using an extension cord, make sure it is in good condition, less than 70 feet long and #10 gauge or heavier.</li> <li>• Check plug end twist lock connector, and cord for damage.</li> </ul>
<p><b>Vacuum won t run.</b></p>	<ul style="list-style-type: none"> <li>• <b>Check vacuum switch. It should be in the on position.</b></li> <li>• Check circuit breaker and reset if tripped.</li> </ul> <p>NOTE: GFCI and/or circuit breaker may trip if vacuum motor is flooded. Open tank cover and try to run vacuum motor for 10 minutes to dry vacuum motor. If the GFCI trips again, wait 5 minutes, reset and try vacuum again.</p> <ul style="list-style-type: none"> <li>• Check upper float — eyes or dots on white float must point up. Move float up and down to see if vacuum will turn on. Water level must be below upper float. Float must be in the lowest position.</li> </ul>
<p><b>Pump won t run</b></p>	<ul style="list-style-type: none"> <li>• Check pump switch — it should be in the on position.</li> <li>• Check pump circuit breaker (5 amp) and reset if tripped.</li> <li>• Check fluid level must have at least 4 gallons in tank.</li> <li>• Check ultra filter. If dirty, drain and flush tank and remove and clean filter.</li> <li>• Check lower float — eyes or dots on white float must point down. Move float up and down to see if vacuum will turn on. Move float up and down to see if pump will turn on. Clean if sticking. Float must be in highest position (floating) for pump to operate.</li> </ul>
<p><b>Pump tries to run and then blows circuit breaker</b></p>	<ul style="list-style-type: none"> <li>• Check power cord for frayed, cut or worn spots and twist lock connector for signs of overheating.</li> <li>• If using an extension cord, ,make sure it is in good condition, less than 70 feet long and #10 gauge or heavier.</li> <li>• Check pump static PSI — must be 400 psi or less</li> <li>• Check wall outlet voltage. If below 105 volts, pump will not work.</li> </ul>
<p><b>Pump starts and stops</b></p>	<ul style="list-style-type: none"> <li>• Check for dirty Ultra Filter. Water level should be the same inside and outside of filter.</li> <li>• Check for sticking pump float.</li> <li>• Check fluid level — must have at least 4 gallons in tank.</li> </ul>
<p><b>Excessive pressure drop when cleaning (exceeds 100 psi)</b></p>	<ul style="list-style-type: none"> <li>• Adjust static pressure to 400 psi when not cleaning.</li> <li>• Check and clean main cloth filter and ball strainers in tank.</li> <li>• Check and replace worn spray nozzles and loose or leaking fittings/inline strainer.</li> <li>• Purge excess air from pumping system with prime switch.</li> </ul>

## TROUBLE SHOOTING GUIDE

<b>Water dripping from bottom of machine exhaust.</b>	<ul style="list-style-type: none"> <li>• Check machine for excess foaming. Add CFR Defoam to tool hose and tank. Open machine top cover and let vacuum run for 10 minutes to dry out vacuum motor, then close lid and resume cleaning.</li> <li>• Check drain hose plug; must be securely fastened to prevent air leaks to vacuum causing vacuum flooding. Hose will vibrate if there is an air leak.</li> </ul>
<b>Head Assembly leaks.</b>	<ul style="list-style-type: none"> <li>• Leave vacuum running for 1 minute when finished cleaning to clear hose.</li> <li>• Check for holes/breaks in vacuum hose.</li> <li>• Make sure the inline strainer is properly tightened and fluid hose connectors are fully seated.</li> </ul>
<b>Carpet too wet.</b>	<ul style="list-style-type: none"> <li>• <b>NOTE:</b> CFR floor tool is used in forward direction only.</li> <li>• Check carpet tool position — head must be completely seated on carpet to provide good drying times.</li> <li>• Check tool and hose for any obstructions.</li> <li>• Check lid cover sealing properly. Is filter case properly seated in tank? Is lid gasket in good shape with no cuts, cracks, or worn/compressed areas?</li> <li>• Check for cracks in lid cover.</li> <li>• Check drain hose and fittings for cracks and tears. Make sure drain plug is securely fastened. Hose will vibrate if there is an air leak.</li> <li>• Verify inlet filter knob is securely fastened to tank.</li> <li>• Check tool hose for holes, cracks, or cuts.</li> <li>• Check hose cuffs — must seat firmly on tank fitting and tool.</li> <li>• Check water dripping from bottom of machine exhaust. If present, check machine for excess foaming.</li> <li>• Verify that cleaning head spray bar is fully seated.</li> <li>• Check carpet installation. Some carpets are installed on uneven surfaces with ridges and bumps. It is difficult to get good drying times with this type of installation.</li> </ul>
<b>Streaks on carpet.</b>	<ul style="list-style-type: none"> <li>• Check tool and hose for obstructions.</li> <li>• Check and clean inline strainer filter.</li> <li>• Check and clean main cloth ultra filter.</li> <li>• Check nozzles for full spray. Clean if clogged or replace if worn.</li> <li>• Check pump pressure drop while cleaning. Should not drop more than 100 p.s.i. Make sure air is out of system by re-priming pump. If there is still a problem, remove and clean ball shaped strainer screens.</li> <li>• Make sure strokes overlap a minimum of 3 inches.</li> <li>• Check CFR chemical usage instructions for proper application.</li> <li>• Multiple cleanings may be needed to clean deeply imbedded dirt that is pulled to the surface by CFR's deep cleaning technology. Offset cleaning passes by 6 inches.</li> </ul>
<b>No fluid from cleaning head</b>	<ul style="list-style-type: none"> <li>• Check that prime switch is in off position.</li> <li>• Check and clean inline strainer.</li> </ul>

## **WARRANTY**

CFR, a Tacony company, warrants new products manufactured and sold under the name CFR to be free from defects in materials and workmanship under normal use and service. CFR's obligation under this warranty is limited to repairing or replacing, at our option, such products or parts which are returned to our factory authorized service center, freight prepaid, within the warranty period and are found to be defective in materials or workmanship. For rotationally molded polyethylene housings and aluminum frames and chassis this warranty expires 60 months from the date of registration; if the warrant is not registered, it expires 60 months from the factory shipment date. For all other components, with the exception of wear items (i.e. filter, nozzles, etc.) this warranty expires 12 months from the date of registration on the warranty. If not registered, it expires 12 months from the factory shipment date. For hoses, tools, and other attachments manufactured and sold by CFR, this warranty expires 12 months from factory shipment date. Parts replaced or repaired under warranty are guaranteed for the remainder of the original warranty period. Replacement parts that have become defective through wear or abuse are not included in this warranty. CFR will pay service labor to the distributor or authorized service repair center per the warranty flat rate schedule. Service labor will be paid for two years on all warranted polyethylene housings, aluminum frames and chassis, and one year on all other warranted components.

CFR systems are designed for use only with specially formulated CFR Recyclable Cleaning Chemicals. Use of any other chemical in CFR systems may cause damage to the pump, motor and other components and may void the warranty.

This warranty shall cease to be in effect if repairs, replacements or alternations are made by the purchaser or any non-authorized service station. This warranty does not apply to damage caused by misuse, abuse, or negligence of the buyer or third party, or damage due to transportation of product.

CFR MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATIONS, ANY WARRANTIES OF FITNESS OR MERCHANTABILITY, EXCEPT AS EXPRESSLY SET FORTH ABOVE WITH RESPECT TO SUCH PRODUCTS OR PARTS THEREIN. NOR SHALL CFR HAVE INCURRED ANY OTHER OBLIGATIONS OR LIABILITIES ON ITS PART OR BE LIABLE FOR ANY ANTICIPATED OR LOST PROFITS, INCIDENTAL DAMAGES, CONSEQUENTIAL DAMAGES, TIME CHARGES OR ANY OTHER LOSSES INCURRED IN CONNECTION WITH THE PURCHASE, INSTALLATION, REPLACEMENT OR REPAIR OF SUCH PRODUCTS OR ANY PARTS THEREIN WHETHER ORIGINAL EQUIPMENT OR INSTALLED AS A REPLACEMENT, COVERED BY THIS WARRANTY OR OTHERWISE; AND CFR DOES NOT AUTHORIZE ANY PERSONA TO ASSUME FOR CFR ANY OTHER LIABILITY IN CONNECTION WITH THE PRODUCTS OR PARTS THEREIN.



For more information about top quality CFR products  
please see your local CFR distributor or visit us at  
[www.cfrcorp.com](http://www.cfrcorp.com)

Thank you for purchasing  
CFR Environmental Cleaning Systems.

CFR Environmental Cleaning Systems  
3101 Wichita Court  
Fort Worth, Texas 76140

817.551.0700  
800.533.2557  
FAX 817.551.0719