

Safety, Operations & Maint. Manual

Cleanfix[®] Pelican Extractor



This manual is furnished with each new **Pelican Extractor unit (Model HBP1200, HBP1200H2, HBP1222 and HBP1222H2.)** It provides necessary operation and maintenance instructions.

**MODEL HBP1200
MODEL HBP1200H2**

**12 GAL. DUAL VACUUM CARPET EXTRACTOR
12 GAL. DUAL VACUUM CARPET EXTRACTOR
- DUAL CORD UNIT WITH HEATER**

MODEL HBP1222

**12 GAL. DUAL VACUUM CARPET EXTRACTOR
PUMP OUT**

MODEL HBP1222H2

**12 GAL. DUAL VACUUM CARPET EXTRACTOR
PUMP OUT - DUAL CORD UNIT WITH HEATER**

**READ AND FOLLOW ALL INSTRUCTIONS, WARNINGS AND CAUTIONS BEFORE AND WHEN
USING THIS EXTRACTOR.**

All information and specifications printed in this manual are current at the time of printing. However, because of Cleanfix policy of continual product improvement, we reserve the right to make changes at any time without notice.

WHEN THE MACHINE IS DELIVERED

Carefully check the carton for signs of damage. Remove the machine from the carton. If the machine is damaged, notify the carrier immediately and request an inspection. Be sure to keep the carton, packing inserts, packing list and carrier's receipt until the inspector has verified your claim. Cleanfix liability ceases when the shipment is picked up by the carrier. We will furnish any information needed to expedite the claim process.

Check carton contents to ensure all accessories are included which are listed as follows:

- 1) (1) 1-1/2" x 25 ft. crush proof vacuum and 3/8" solution hose assembly (hi-temp/hi-heat vacuum/solution hose assy. + circuit locator for second cord if with heater)
- 2) 12" single-jet stainless wand or upgrade to 12" dual-jet S'bend stainless wand
- 3) 1-1/2" x 50 ft. flat discharge hose w/ coupler (only with HBP1222 and HBP1222H2)
- 4) Large debris filter bag (vacuum intake) (only with HBP1222 and HBP1222H2)
- 5) Drain elbow

GENERAL PRECAUTIONS

FAILURE TO FOLLOW PRECAUTIONS AND WARNINGS MAY CAUSE SERIOUS INJURY TO THE OPERATOR AND CAUSE DAMAGE TO MACHINE, WHICH CAN VOID WARRANTY.

WARNING

To Avoid Electric Shock, Do Not Expose to Rain. Store Indoors.

- For 120 volt grounded outlet models. The unit must be plugged into a properly grounded outlet for the GFCI (ground fault circuit interrupter) to function properly. **Do not** operate the machine with a broken/missing grounding pin. Have a qualified service person replace the plug immediately.
- The GFCI (only with models HBP1222 / HBP1222H2) prevents serious shock hazard/injury if an electrical component becomes defective. **Do not attempt to push the RESET button more than twice.** Have a qualified service person check out the unit.
- A GFCI **does not** protect against circuit overloads and short circuits.
- **Do not** run waste pump dry as it will damage the seals (only with models HBP1222 / HBP1222H2).
- The vacuum is intended for WET pick up only! **Do not** use as a dry vacuum.
- **Do not** operate the machine where explosive vapors or flammable materials exist. **Do not** use where oxygen and anesthetics are used.
- **This is not** a toy. Close attention is necessary when used around or near children.
- **Do not** expose to rain. Store indoors.
- Disconnect power cord from the outlet before attempting maintenance or repair work. **Do not** leave machine connected to an electrical outlet when unattended.
- **Do not** use the machine with a frayed or damaged cord. Replace immediately.
- **Do not** pull or carry by the cord, use cord as a handle, close a door on cord or pull cord around sharp edges and corners. **Keep cord away** from heated surfaces.
- Replace rocker switch splash proof cover when it gets damaged.
- **Do not** store machine lying sideways. Store or transport in an upright position.

GENERAL PRECAUTIONS

- This machine is designed to be used as a **regular carpet extractor** and equipped with a solution pump and two vacuums in operation or as a continuous flood vacuum (only models HBP1222 / HBP1222H2). To prevent damage to equipment and property and to achieve the best cleaning results, please read the instructions thoroughly and completely before operating the unit.
- If an extension cord is necessary, use a 12 ga. or heavier grounding cord to prevent motor burnout and overheating of wires.
- **Do not** expose machine and wand to freezing temperatures or store in areas where the solution lines can freeze. The solution pump head and valve on the wand will crack if liquid is present on the solution line. Empty out the solution line if machine is to be stores for a long period.

GROUNDING INSTRUCTIONS - 120 VOLT

Improper use of the grounding plug can result in a risk of electric shock.

Electrical equipment must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock.

The unit is equipped with a cord having equipment grounding conductor and grounding plug. The plug must be inserted into an

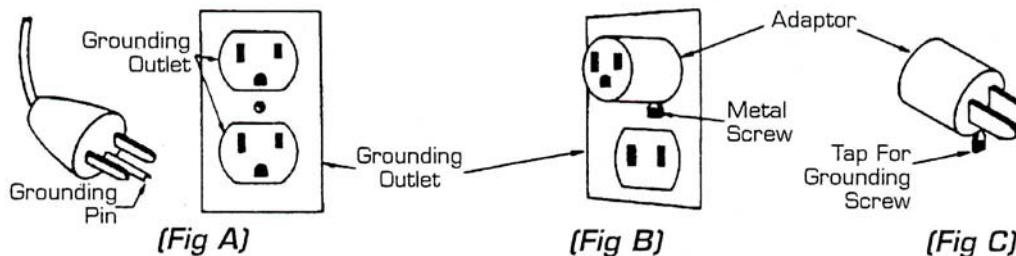
appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

If repair or replacement is necessary, **DO NOT** connect the grounded wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

GROUNDING METHODS

This electric equipment is for use on a nominal 120-volt circuit and has a grounded plug that looks like the plug illustrated in (Fig. A). A temporary adaptor that looks like the adaptor illustrated in (Fig. B & C) may be used to connect this plug to a 2-pole receptacle as shown in (Fig. B) if a properly grounded outlet is not available.

The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green color rigid ear, lug or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.



Note: In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code.

FUNCTIONAL PARTS AND ACCESSORIES

Front View

Recovery Tank

w/ clear high impact resistant dome – must be closed when using machine

Solution Pump Switch

Vacuum 1 Switch

Vacuum 2 Switch

Vacuum 2 in models HBP1222 and HBP1222H2 will only come on when automatic pump-out is turned off.

Latches (to motor compartm.)

Latches must be secured when using the machine.

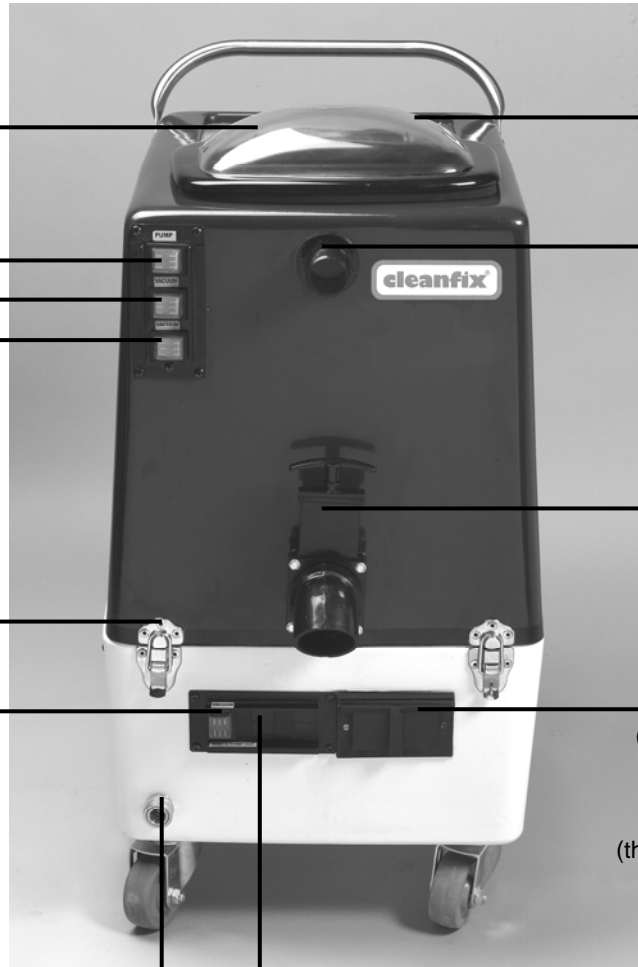
Waste Pump-Out Switch

(only model HBP1222 and HBP1222H2).

It is a three-way switch and can be turned to waste pump-out, neutral or carpet extraction. The discharge hose must be coupled to the discharge adapter before the switch is turned to waste pump-out.

Solution Hose Adaptor

Female quick disconnect for 3/8" solution hose.



Solution Tank

Vacuum Hose Adaptor

Drain Valve

for recovery tank
Pull "T" Handle up to open. Drain valve must be closed after each use. Install drain elbow upon receipt of the unit.

GFCI

(only HBP1222/HBP1222H2)
Red **RESET** button, black **TEST** button. Occasionally press the **TEST** button (then **RESET** button) to assure proper operation. Pressing the **TEST** button stops the flow of electricity to the unit. Press **RESET** to restore power.

Heater Switch

(only model HBP1200H2 and HBP1222H2).
With the HEATER switch in the ON position, the light will turn OFF when solution temp of 200° F (98° C) is reached and will turn ON again at 156° F (68° C).

FUNCTIONAL PARTS AND ACCESSORIES (cont.)

1-1/2" discharge hose adaptor

(only model HBP1222 / HBP1222H2).

A discharge hose must be connected at the discharge adaptor when waste pump-out is turned on.



Power Cord

(Primary Circuit)

If the machine is equipped with a heater then there is a second power cord (Secondary circuit) and a green Circuit Locator light on the back of the machine.

OPERATING INSTRUCTIONS

A) PELICAN EXTRACTOR (HBP1200 and HPB1200H2) TO OPERATE AS A CARPET EXTRACTOR

- 1) Connect vacuum hose to the vacuum intake and the extraction wand.
- 2) Connect the solution hose to the unit and the wand. Pull the sleeve on the coupler and insert the male quick disconnect plug on the hose. The sleeve should "CLICK" and retract back indicating a positive seal.
- 3) Fill solution tank with hot tap water (not to exceed 140 deg F!) and pour recommended amount of cleaning solution. Follow directions on the bottle label for best results.
- 4) Pour recommended amount of DEFOAMER into the recovery tank.
- 5) Plug the unit into a dedicated 120 VOLT, 15 AMP circuit.
- 6) Turn on all the GREEN SWITCHES (PUMP, VACUUM, and VACUUM).
- 7) Position wand at a comfortable position in front of you. Squeeze the solution lever and pull the wand towards you. Apply a slight downward pressure on the wand grip to maximize extraction. Overlap your next pass to prevent streaks. Make an additional pass on the area previously cleaned without applying solution to speed up drying. Use of an Air Mover will speed up drying process.
- 8) When the width of the spray pattern starts getting smaller, the solution tank needs to be refilled. Turn off all GREEN SWITCHES. Empty the recovered dirty solution (pull T-handle up) into a bucket. Make sure to close the valve after draining the tank.
- 9) WHEN THE JOB IS COMPLETED. Vacuum out remaining cleaning solution into the recovery tank. Rinse out dirt and debris from the recovery tank and replace lint bag.

**B) PELICAN EXTRACTOR PUMP OUT (MODEL HBP1222, HBP1222H2)
TO OPERATE AS A CARPET EXTRACTOR**

- 1) Turn BLACK SWITCH on the bottom of the machine to the VACUUM position.(Only with Auto-Pump-Out)
- 2) REMOVE LINT BAG located inside the recovery tank (if applicable).
- 3) Connect vacuum hose to the vacuum intake and the extraction wand.
- 4) Connect the solution hose to the unit and the wand. Pull the sleeve on the coupler and insert the male quick disconnect plug on the hose. The sleeve should "CLICK" and retract back indicating a positive seal.
- 5) Fill solution tank with hot tap water (not to exceed 140 deg F) and pour recommended amount of cleaning solution. Follow directions on the bottle label for best results.
- 6) Pour recommended amount of DEFOAMER into the recovery tank.
- 7) Plug the unit into a dedicated 120 VOLT, 15 AMP circuit
- 8) Turn on all the GREEN SWITCHES (PUMP, VACUUM, and VACUUM).
- 9) Position the wand at a comfortable position in front of you. Squeeze the solution lever and pull the wand towards you. Apply a slight downward pressure on the wand grip to maximize extraction. Overlap your next pass to prevent streaks. Make an additional pass on the area previously cleaned without applying solution to speed up drying. The use of an AIR MOVER will also speed up the drying process.
- 10) When the width of the spray pattern starts getting smaller, the solution tank needs to be refilled. Turn off all GREEN SWITCHES. Empty the recovered dirty solution (pull T-handle up) into a bucket. Make sure to close the valve after draining the tank.
- 11) WHEN THE JOB IS COMPLETED. Vacuum out remaining cleaning solution into the recovery tank. Rinse out dirt and debris from the recovery tank and replace LINT BAG.

TO OPERATE AS A CONTINUOUS FLOOD VACUUM

- 1) Turn the BLACK SWITCH on the bottom of the unit to WASTE PUMP OUT position. Make sure LINT BAG is installed securely to the elbow on the recovery tank.
- 2) Connect flat hose and secure quick cam coupler on the back of the unit. Unroll the hose in a straight pattern to an area where the waste water is to be discharged. Make sure there are no kinks or sharp bends that may prevent the waste pump from working properly.
- 3) Connect vacuum hose to the vacuum intake and the wand (squeegee or extraction). WARNING!!! DO NOT OPERATE THIS UNIT IN STANDING WATER. An additional length of vacuum hose (max of 50 ft.) or discharge hose (max of 200 ft. horizontally) may be added to the unit if needed.
- 4) Plug the unit into a dedicated 120 volt, 15 amp circuit.
- 5) Turn on the GREEN SWITCHES (PUMP & ONE VACUUM ONLY). The second vacuum was designed not to turn on to prevent overloading the circuit.
- 6) Position the wand to extract the waste water. When the recovery tank fills up, the waste pump will automatically discharge the waste water.
- 7) WHEN THE JOB IS COMPLETED. Empty out recovered waste water into a bucket. Remove lint bag and turn it inside out to clean. Rinse the recovery tank with clean water. Replace lint bag.

TO USE THE HEATER (model HBP1222H2 AND HBP1200H2)

The built in heater has its own cord (Secondary Circuit) which requires a separate 120 v, 15 amp circuit. This model is equipped with a circuit locator to prevent overloading the circuit. A GREEN LIGHT on the back of the machine means you have located two separate circuits. NO LIGHT means you are on the same circuit.

- 1) Plug the unit into two dedicated, independent 120 VOLT, 15 AMP circuits.
- 2) Turn the SOLUTION PUMP switch on before you turn the HEATER switch on.
- 3) With the HEATER switch in the ON position, the light will turn OFF when solution temp of 200° F (98° C) is reached and will turn ON again at 156° F (68° C).
- 4) The heating element will raise the temperature of the water by 40° F (4.4° C) if it is used on a spray cycle of 10 seconds running and 10 seconds hold using a .6 GPM tip. When hot water at 140° F (60° C) is used, the output temperature will be 180° F (82° C). The use of smaller tips will provide a longer heat retention and faster

rise in temperature but we don't recommend a tip or combination of tips smaller than .3 GPM.

When the cleaning solution runs out, turn OFF the HEATER and SOLUTION PUMP switch IMMEDIATELY! The heating unit is protected with an automatic thermal cutoff switch and a manual thermal cutoff switch set at a higher temperature limit in case the automatic thermal cutoff switch fails. Have a qualified service technician check the unit out before resetting the manual switch.

To maintain heater efficiency, use a mild acid solution such as vinegar mixed with water (50/50) in the solution tank and connect an open ended solution hose back into the tank. Turn on only the PUMP (No Heater) and cycle the solution for at least 15 minutes. This process removes alkaline residue and scale build up on the heater. If machine is constantly used, do this process once a month.

TROUBLESHOOTING

Symptom: No power to the machine!

Problem: GFCI **RESET** button popped out (only models HBP1222 / HBP1222H2).

Solution: *Lift cover and push **RESET** (red) button. If the **RESET** button pops out immediately the second time, do not attempt to **RESET** again. Have a qualified service technician check out the machine.*

Problem: Blown fuse/circuit breaker has tripped.

Solution: *Replace fuse with the same rating. Reset circuit breaker. Make sure no other appliances are connected on the same circuit as the machine. The machine and optional heater both require a dedicated 15 amp circuit.*

Problem: Frayed cord, damaged plug or loose internal wiring.

Solution: *Check cord (#12151) and replace if necessary. Open switch panel and check for loose wire connection.*

Symptom: Intermittent power to one or all of the motors/heater!

Problem: Defective power cord

Solution: *Replace 12 ga. power cord (#12151)*

Problem: Defective switch (discolored terminal connections, burnt terminal connectors)

Solution: *Replace green lighter rocker switch (# 12027)
Replace black DPDT rocker switch (# 12076)*

Symptom: Solution pump is not working properly / no power!

Problem: Low solution flow output

Solution: *Clean solution filter screen inside solution tank. If screen is damaged or totally plugged up, replace screen (# 12072)*

Problem: No light on the switch/defective rocker switch

Solution: *Replace switch (# 12027)*

Problem: Defective pump pressure switch

Solution: *Replace with switch kit assy. (# 12264)*

Problem: Defective pump (punctured pump diaphragm, weak rectifier damaged check valve, and motor carbon brushes worn out)

Solution: *Replace 100 psi solution pump (# 12147)*

TROUBLESHOOTING (cont.)

Symptom: Weak vacuum

Problem: Worn out lid gasket

Solution: Replace lid gasket (# 12062)

Problem: Defective vacuum motor (noisy bearing, carbon brush sparking burn out armature & worn out carbon brush)

Solution: Replace vacuum motor (# 12210) and motor gasket (# 12062)

Problem: Lint accumulation on vacuum filter screen.

Solution: Clean filter screen. If screen is defective, replace screen (# 12378.3)

Symptom: Weak/no spray from spray tips.

Problem: Clogged spray tips/check valve screen.

Solution: Clean spray tip or check valve screen.

Symptom: Waste pump out will not start or run (only models HBP1222 / HBP1222H2)

Problem: GFCI reset button popping out only when waste pump is turned on indicates damage to pump seal or internal cable connection leak.

Solution: Have a qualified pump service shop repair the pump. If the pump is defective, replace pump (# 12305)

Problem: Defective rocker switch.

Solution: Replace black DPDT rocker switch (# 12076) or lighted rocker switch (# 12027)

Problem: Debris under float switch, float not moving freely, defective float switch.

Solution: Clean debris. Have a qualified shop check pump if it still won't work properly.

Symptom: Waste pump motor overheats and trips overload /GFCI (only models HBP1222 / HBP1222H2)

Problem: Defective capacitor, motor shorted, impeller or seal locked,

Solution: Have a qualified shop check pump (# 12305). Replace if necessary.

Symptom: Heater does not work!

Problem: No light indicates a defective switch or heater thermo disc.

Solution: Replace switch (# 12027) or thermo disc (# 12247.2)

Problem: Defective heating element.

Solution: Check with a multimeter (ohm setting) to see if element is open. Replace heating element (#12319). When the element is replaced, a new automatic thermo disc (# 12326) and the manual resettable thermo disc (# 12247) must be replaced at the same time to ensure heating efficiency.

New Machine Warranty



1. Limited Warranty. These terms and conditions of the New Machine Warranty are a material part of the agreement between Buyer and Cleanfix Cleaning Systems Inc., a New Jersey-based corporation (hereinafter "Cleanfix"), and supersede warranty terms and conditions in documentation submitted by Buyer to Cleanfix. Cleanfix warrants new machines of its manufacture against defects in material and workmanship under normal use and service to the original end-user purchaser. No person, agent, representative or distributor is authorized to give any warranties on behalf of Cleanfix, or to assume any other liability for Cleanfix in connection with any Cleanfix machine. Cleanfix reserves the right to make changes to its equipment without notice. The warranty coverage is subject to the conditions below.

2. Registration of Warranty. The warranty commences on the date of purchase by the original end-user from an authorized Cleanfix distributor or agent, subject to proof of purchase. The warranty commences latest, however, after six (6) months of the purchase date by the authorized distributor or agent of Cleanfix. Any new Cleanfix machine must be registered immediately with Cleanfix by the original end-user customer by fully completing and returning the warranty registration form to Cleanfix. If proof of purchase cannot be identified through a completed and returned warranty registration form, the warranty commences from the date of sale to the authorized Cleanfix distributor.

3. Warranty Coverage. Subject to conditions outlined below, Cleanfix warrants rotationally molded PE housings and tanks on all of its machines to be free from defects in material and workmanship, under normal use and service for ten (10) years to the original end-user.

Subject to conditions outlined below, Cleanfix warrants fiberglass housings and tanks on all of its machines to be free from defects in material and workmanship, under normal use and service for three (3) years to the original end-user.

Under this warranty Cleanfix warrants the performance of non-polyethylene and non-fiberglass components to be free from defects and workmanship for up to one (1) year to the original end-user. Parts replaced or repaired under this warranty are warranted for the remainder of the original warranty period. (See table below)

Rotationally molded PE housings and tanks	10 years
Fiberglass housings and tanks	3 years
Vacuum motors, brush motors, pump motors, boards and electronics	1 year
Battery and battery charger*	1 year

* The 1 year period warranty commences with the purchase date by the authorized distributor or agent of Cleanfix.

Service labor charges are covered for up to one (1) year from the date of purchase through an authorized Cleanfix service provider. A total maximum of one (1) hour travel time - equal to one (1) hour labor rate - is covered for large machines, namely Falcon, Raven, Eagle and larger for 90 days. No coverage is extended for diagnosis time.

4. Product Exceptions and Exclusions. ALL vacuum cleaners and air movers are warranted for one (1) year. No warranty is extended for wear items, accessories and attachments including, but not limited to, belts, brushes, pad holders, capacitors, carbon brushes, wheels, casters, glides, clutches, cords, filters, filter bags, gaskets, hoses, rectifiers, switches, float switches, valves, squeegees, bearings, pulleys, relays, actuating cables, wheels, tires, vacuum cleaner attachments.

The purchaser is assured that meticulous care has been exercised in the selection, assembling and testing of these parts and components before shipping. No warranty is extended for machine finish, labels and other cosmetic parts or features.

5. Stated Warranties. Stated warranties are in lieu of all other warranties, expressed or implied. Any statutory implied warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of the written warranty. Cleanfix will not be liable for any other damages, including but not limited to incidental, indirect or special consequential damages arising out of or in connection with the furnishing, performance, use or inability to use the machine, including damages to persons or property. This remedy shall be the exclusive remedy of the buyer. The warranty is limited to the warranty.

6. Warranty is null and void for the following.

- Damage, defects, malfunction or other failures caused by not using the electric current indicated on the spec plate, including the use of improper extension cords.
- Damage or defect caused by accident, misuse, neglect, abuse, fire etc., including use of incompatible or corrosive chemicals or overloading of capacity.
- Failure caused by lack of proper maintenance and care, including proper machine clean-up after use, proper charging procedures for batteries.
- Failure caused by loss, damage or removal of protective components, including, but not limited to, filters and filter screens, tank covers and lids, skirts and bumpers, float shut-off assemblies.
- Freezing of any water or chemical related components (this will void all warranties on water or chemical related components, internal or external, of the product).
- Deposits and buildup in any water or chemical related systems due to hardness in water (this will void all warranties on affected systems).
- Any design alterations, adjustments and/or repairs performed on the equipment by an organization not authorized or specified by Cleanfix.
- Use of any parts not approved by Cleanfix, including, but not limited to, batteries, battery charger, filter bags, belts, electric components, motors.
- Use of machine for a purpose other than which it was designed and intended, and use of machine in excess of design duration.
- Damage in transit.

7. Warranty Claim Procedure. If a difficulty develops during the specified warranty period, contact the authorized Cleanfix distributor/partner from whom the machine was originally purchased. Do not return any products to Cleanfix unless explicitly authorized by Cleanfix. Cleanfix may elect to require the return of the machine or component(s) to validate the claim. Any defective machine or component to be returned must be shipped freight pre-paid to an authorized Cleanfix distributor/service center.

Cleanfix will provide and charge for replacement parts, including shipping and handling, to the original purchaser through an authorized service center. If the part is returned within 30 days and is found defective, the purchaser will be credited for the cost of the replacement part including shipping and handling.

8. Term. This warranty is valid for all products sold after January 1, 2006. A product sold before that date will be covered by the limited warranty in effect at the date of sale to the original purchaser.