

Safety, Operations & Maint. Manual

Cleanfix® Penguin (RA 410 E)



This unit is intended for commercial use

This manual is furnished with each new **Penguin (RA 410 E)**. It provides necessary operation and maintenance instructions.

READ AND FOLLOW ALL INSTRUCTIONS, WARNINGS AND CAUTIONS BEFORE AND WHEN USING THIS AUTO-SCRUBBER. THE MACHINE MAY ONLY BE USED BY PERSONS WHO HAVE BEEN INSTRUCTED IN ITS HANDLING AND EXPRESSLY ENTRUSTED WITH THE OPERATION THEREOF.

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

This auto-scrubber will afford you many years of trouble-free operating satisfaction, provided it is given proper care. All parts are passed rigid quality control standards prior to their being assembled to the finished product. Prior to packaging, your auto-scrubber was again inspected for assurance of flawless assembly.

This auto-scrubber is protectively packed to prevent damage in shipment. When the machine is delivered carefully check the carton for signs of damage. Unpack the machine from the carton and inspect it for any possible damage.

Only a visual examination will reveal damage that may have occurred in transit. If damage is discovered, immediately notify the transportation company that delivered your auto-scrubber and request an inspection. As a shipper we are unable to report any claim for damage. You must origin any claim within 5 days of delivery. 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. Cleanfix will furnish any information needed to expedite the claim process.

GENERAL PRECAUTIONS

FAILURE TO FOLLOW PRECAUTIONS AND WARNINGS MAY CAUSE SERIOUS INJURY TO THE OPERATOR AND CAUSE DAMAGE TO MACHINE, WHICH CAN VOID WARRANTY. TO REDUCE RISK OF FIRE, ELECTRIC SHOCK OR INJURY: READ ALL INSTRUCTIONS BEFORE AND WHEN USING THIS AUTO-SCRUBBER.

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, check that the nominal voltage of the machines matches the local plug voltage before plugging it. **Do not** operate the machine with a broken/missing grounding pin. Have a qualified service person replace the plug immediately.
- **Do not** leave the automatic scrubber when plugged in. Unplug from outlet when not in use and before servicing.
- Turn **OFF** all the controls before unplugging the auto-scrubber.
- This is **NOT** a toy. Close attention is necessary when used around or near children.
- Use only as described in this safety/operations manual. Use only manufacturer's recommended attachments and accessories.
- **Do not** use this auto-scrubber with damaged cord or plug. If the auto-scrubber is not working as it should, because it has been dropped, damaged, left outdoors or
- dropped into water, contact authorized service center or factory.
- **Do not** pull or carry auto-scrubber by the cord, use cord as a handle, close a door on cord or pull cord around sharp edges and corners. **Do not** run auto-scrubber over cord. **Keep** cord **away** from heated surfaces.
- **Do not** unplug the auto-scrubber by pulling on the cord. To unplug, grasp the plug, not the cord.
- **Do not** handle the plugs of the auto-scrubber with wet hands.
- Store auto-scrubber indoors in a dry area. **Do not** expose to freezing temperatures.
- **Do not** put any objects into openings. **Do not** use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
- Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.

GENERAL PRECAUTIONS (cont.)

- Any manner of working that represents a safety hazard must be refrained from.
- **Do not** use the auto-scrubber to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present. **Do not** pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- **Do not** use where anesthetics or oxygen is used.
- **Do not** use an extension cord unless absolutely necessary. If an extension cord is used, the wire size must be 14 ga. or larger and should not exceed 50 feet in length. The extension cord must be three-wire type to insure grounding protection.
- Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety and to protect your limited warranty.
- **Do not** pressure-wash the auto-scrubber, as it may cause a short circuit, damage to components and/or operator injury.
- **Never** drive over steps!
- **Never** drive over power cords! **Danger of electric shock!**
- Whilst operating, caution is to be exercised with respect to third parties, especially children.
- Wear sturdy footwear.
- When cleaning and servicing the machine, changing parts or converting to a different function, turn off the machine.
- Besides the operating instructions and the national rules for safety in the work place, we also recommend that the unwritten rules of safe working should be respected. Using the auto-scrubber on public roads, paths and any other outdoor surface is prohibited.

TRANSPORT

- The applicable user and safety instructions/regulations, in particular for those pertaining to load-bearing capacity, must be observed when transporting the machine in elevators.
- Exercise care when moving the machine over thresholds and landings – this may damage wheels and the squeegees. Please ensure that the squeegees are raised.
- When transporting in elevators, their safety regulations and precautions are to be respected as well as the maximum load capacity of the elevator.

GRADIENTS, STEPS AND THRESHOLDS

- **NEVER** drive auto-scrubber over steps.
- **Do not** use the auto-scrubber on inclines exceeding 4% unless higher inclines are approved in the operating instructions. Always use extreme caution when moving the auto-scrubber on ramps or inclines.
- **Do not** change directions on inclines.
- **Do not** park the auto-scrubber on inclines.
- Care should be taken when driving the machine over thresholds or sills as damage may occur to the brushes, wheels and squeegee assembly. It is advisable to lift the brushes and the squeegee assembly.

GENERAL PRECAUTIONS (cont.)

CLEANING CHEMICALS AND HAZARDOUS DUST/LIQUID

- Attention must be paid to the manufacturer's safety instructions when using cleaning and care chemicals. Wear safety glasses and clothing if necessary.
- The danger of using easily flammable, toxic, health-damaging, caustic or irritating substances is expressly pointed out.
- Do not use the auto-scrubber for surfaces that can release dust and liquids that are hazardous to health.
- Only use low foaming and non-inflammable cleaning agents, which do not include hazardous components.

CARE OF AUTO-SCRUBBER

This auto-scrubber is designed to be safe when used to perform cleaning functions as specified. Should damage occur to electrical parts, the unit should **NOT** be used until the damage is repaired by the manufacturer or an authorized service center. This will avoid further damage to the auto-scrubber or injury to the user.

These instructions are for your protection and information.

PLEASE READ CAREFULLY! Failure to follow instructions or precautions could result in injury or damage to the user and/or the auto-scrubber.

GROUNDING INSTRUCTIONS - 120 VOLT

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 auto-scrubber 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 of the cord or plug 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.

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.

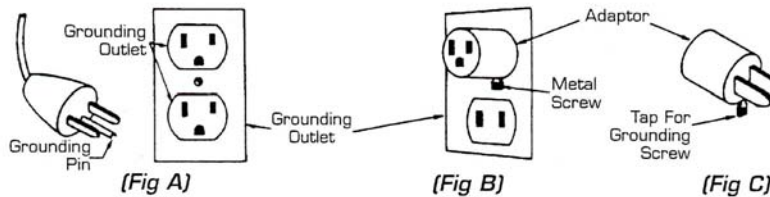
Do not modify the plug provided with the equipment. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

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

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 (Fig. C).



DANGER:
Improper use of the grounding plug can result in a risk of electrical shock.

INTENDED USE

- **Only use** for wet cleaning of water-resistant floor coverings in building interiors.
- **Do not** use the auto-scrubber on public roadways.
- The auto-scrubber is not to be used at temperatures **under 32°F (0°C)**.
- The water temperature may not exceed 122°F (50°C).
- **Any other use is considered to be improper.** The manufacturer is not liable for any resulting damage; all risks are the responsibility of the user.
- The appropriate accident prevention rules, as well as other known regulations for health and safety in operation, must be respected.
- Use for intended purpose also includes adherence to the manufacturer's operating, service and maintenance regulations.
- Modifications made to the auto-scrubber by the user releases Cleanfix from all liability for resulting damage.
- Floor coverings must be checked for suitability for this cleaning method before using the auto-scrubber!
- Pay attention to surface pressure in case of point-elastic floors such as gymnasium floors. Check that the wheels will not damage the surface.
- Cleanfix does not accept liability for damage caused to the machine and floor covering being cleaned if wrong brush and chemicals have been used.

BEFORE USING THE AUTO-SCRUBBER

CHECK IF COMPLETE

- Machine
- Squeegees
- Scrub brush
- Dome
- Bucket and solution tank drain hose
- Operations manual

QUICKGUIDE

1. Check that the machine is in proper condition.
2. Remove obstacles, such as furniture etc. from the area to be cleaned. Large pieces can be removed to opposite end of the room from where you start cleaning.
3. All covers, hoods and lids must be correctly attached and closed. Make sure all switches are in the **OFF** position.
4. Fill the machine with clean water using a clean bucket or a hose attached to a water source.
5. Add the chemical required. Check the label for the correct dilution portions.
6. Before plugging power cord into grounded outlet all switches must be in the **OFF** position. All cords and connectors must have proper protection from spray water.
7. Check all cords for damage and signs of aging at regular intervals. The auto-scrubber may only be used if the cord is in perfect condition.

WARNING

**DO NOT operate auto-scrubber without a cord ground pin.
This is necessary to avoid electric shock.**

ASSEMBLING THE HANDLE

(Picture C, page 6)

- Unscrew the screws from the joints of the lower handle part on the machine.
- Place the upper handle into position at the lower handle
- Adjust the handle to a convenient angle/height, put the screws into place and tighten them.

FILLING WITH CLEANING SOLUTION

- Fill the tank with clean, lukewarm water.
- Add the chemical required for the specific task (Dilution rates will be on the label of the cleaning solution). The maximum capacity of the solution tank is 9 gallons (US).

ATTACHING THE VACUUM HOSES

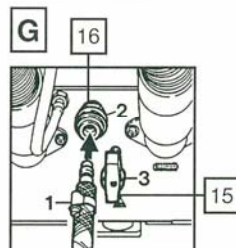
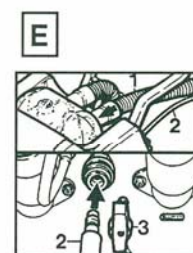
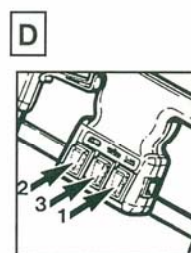
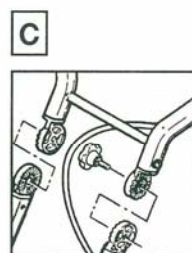
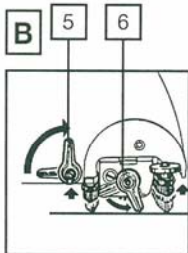
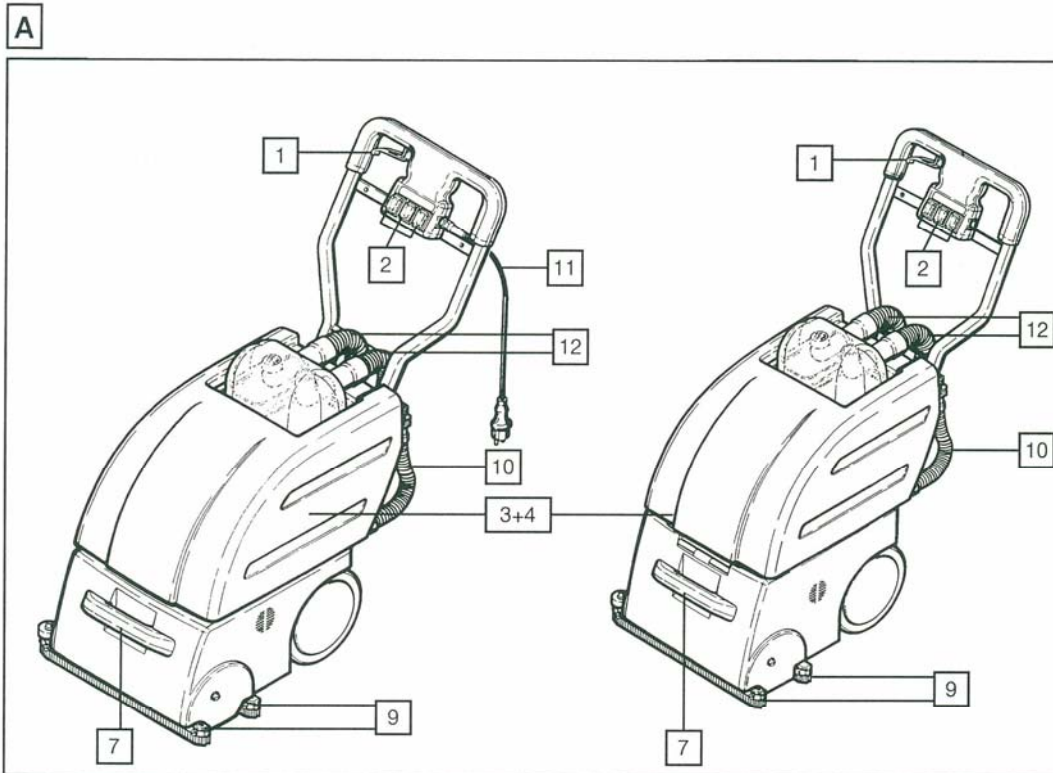
- Place dome onto the tank and plug the hoses into the connections on the dome.

IMPORTANT!

Only use non-foaming cleaning agents that are suggested for the cleaning of hard floors with auto-scrubbers. **For damages caused to the vacuum motor by entering foam the manufacturer gives no warranty. In case of foam occurring in the tank add defoamer into the recovery tank!**

FUNCTIONAL PARTS AND ACCESSORIES

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Solution trigger 2. Switches for brush, vacuum motor and solution pump 3. Recovery tank 4. Solution tank 5. Lever to raise squeegees 6. Kick-stand 7. Handle for transporting the unit | <ol style="list-style-type: none"> 8. Cylindrical brush 9. Squeegees 10. Drain hose for recovery tank 11. Power cord 12. Vacuum hoses 15. Valve for external tools to regulate solution flow 16. Quick disconnect to attach external tools/accessories |
|---|---|



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OPERATING THE AUTO-SCRUBBER

SCRUBBING AND VACUUMING

Before cleaning, the surface must be swept.

The controls have universal symbols for the function they control.

- Lower the brush by turning the kick-stand for brush relieve (B-6).
 - Push button for solution (2)
 - Push button for brush operation (1)
 - Push button for vacuum motor (3)
- Turn lever to lower squeegees (B-5).
- Turn on the different applications in the following order by pressing switches (Picture D):

At the same time check the vacuuming performance.

Note: On very smooth surfaces (i.e. vinyl tile, marble, laminate, etc.) it is recommended to move the machine at a slow pace when cleaning and vacuuming.

FOR SMALL AND NARROW PLACES:

- Lower the brush by turning the kick-stand for brush relieve (B-6).
 - Push button for brush operation (1)
 - Push button for vacuum motor (3)
- Turn lever to lower squeegees (B-5).
- Turn on the different applications in the following order by pressing switches (Picture D):
 - Do not turn on the pump.
 - Manually apply cleaning solution to the surface by pulling the lever on the right side of the handle (Picture A-1).

Note: Solution trigger only engages when brush is turned on.

DOUBLE-SCRUBBING:

- Lower the brush by turning the kick-stand for brush relieve (B-6).
- Turn lever to **lift** squeegees (B-5).
- Push button for brush operation (D-1).
- Manually apply cleaning solution to the surface by pulling the lever on the right side of the handle (Picture A-1).
- After the solution is applied and given enough dwell time on the entire surface lower the squeegees, and turn on vacuum motor and vacuum the entire surface.

IMPORTANT INFORMATION

- When the machine is not being operated, immediately turn off the brush in order to avoid damage to floor surface.
- During breaks always relieve the brush by lifting it from the floor with the kick-stand. Life expectancy of the brush will be increased.
- **Do not** damage cord (e.g. by driving over the cord, pulling the cord, crushing the cord, etc.).
- **Always disconnect cord at plug.**
- If either liquid or foam leaks from machine unintentionally, immediately switch off the machine. Add defoamer to prevent foam entering the tube of the vacuum motor.
- Check filling level regularly and empty recovered water in time. Make sure enough water is dispensed whilst running the brush as it should never be run dry. The vacuum motor may be destroyed if the recovery tank is over-filled and water or foam enters the motor. When emptying the recovery tank the machine must be turned-off.
- Use brush as described in this operations manual. Failure to comply with this can be hazardous.
- When leaving the machine unattended, disconnect cord and safeguard machine from unauthorized use.
- The working place of the operator is behind the handle of the machine.

OPERATING THE AUTO-SCRUBBER (cont.)

WORKING WITH EXTERNAL TOOLS/ACCESSORIES

- Put down kick-stand to relieve the brush (Picture B-6)
- Disconnect the left vacuum hose of the machine from the dome and connect vacuum hose used with external tool to dome (left opening) (Picture E-1).
- Attach solution hose used with the external tool to quick disconnect on machine (Picture E-2 and G-16).
- Connect the external tool to the hoses.
- Turn valve next to quick disconnect (E-3 and G-15) to tool symbol (vertical position).
- Push button for the pump (D-2) and for the vacuum motor (D-3).
- Hard-to-reach areas, stairs and corners can now easily be cleaned with the external tool.

FINISHING THE JOB

- Turn off the solution flow (D-2).
- Turn of brush (D-1).
- Raise brush by putting kick-stand in place (B-6).
- Turn of vacuum motor (D-3).
- Raise squeegee with lever (B-5).
- Rinse solution tank with clean water and pump out water with solution tank drain hose into a bucket.
- Drain dirty water from recovery tank with drain hose (A-10 and F) and flush recovery tank with clean water.
- Remove brush and rinse thoroughly with clean water by unscrewing mounting screw and pulling out the brush (Picture H).
- Clean below the machine with a damp cloth.
- Clean entire unit with a damp cloth.
- Remove squeegees and clean thoroughly by unscrewing tow hex bolts in between squeegee blades. When mounting back on make sure that the squeegee assembly guiding wheel is mounted in the front.

APPLICATIONS AND WORKING METHODS

1. Working methods	Effective cleaning is achieved by following a few guidelines, combined with your own experience in particular areas.	Correct use of special accessories will increase the cleaning effect. Some basic instructions can be found below.
2. Applications	The machine is suitable for: <ul style="list-style-type: none"> • Deep cleaning of water-resistant hard floors surfaces • Daily cleaning of non scratch-proof hard floor surfaces • Daily maintenance cleaning, normal soiled floors <p>Warning : Maximum temperature for solution 122°F / 50°C !</p>	

FREEZING TEMPERATURE PRE-CAUTIONS

If it becomes necessary to store or transport the unit where temperatures could drop below freezing, 32° F, the solution lines and valves must be protected from freezing with a solution of automotive radiator anti-freeze.

1. Mix ½ gallon of water and ½ gallon of anti-freeze and pour into the solution tank.

2. Turn on solution pump (D-2). Let pump run until anti-freeze is coming out of machine.
3. To prevent damage to unit, allow the auto-scrubber to reach room temperature before using. The anti-freeze MUST be flushed out of the solution system with clean water; otherwise, the floor may be damaged.

STORAGE OF AUTO-SCRUBBER

This auto-scrubber should be stored in an upright position. Objects should not be stored or stacked on top of unit. Always put in kick-stand to relieve brush.

Always store the auto-scrubber in a dry, protected area at temperatures above freezing.

This unit should not be stored in vehicles or areas where extreme heat or cold occurs.

MAINTENANCE AND REPAIR

- Only do maintenance work described in this manual.
- Always use original spare parts.
- **WARNING!** Do not make any technical alterations to auto-scrubber. This can put your safety at risk and will void the warranty.

- Always contact authorized service center or factory for other maintenance and repair work.

WARNING

Always disconnect power cord before cleaning and maintaining the auto-scrubber.

	After every use	Weekly	When required
Thoroughly flush solution lines with clean water	•		
Rinse solution and recovery tank with clean water	•		
Clean solution filter		•	
Clean recovery tank filter	•		
Clean squeegees	•		
Inspect squeegees and bladder for wear; replace if necessary	•		
Replace brush			•
Check power cord and replace/repair			•

If you maintain the machine carefully it will stay in good working condition for a long period of time. Regularly check the machine for any wear and tear.

- Before repairing machine always unplug the power cord.
- Repairs and any type of service may only be done by an authorized service center or factory personnel.

MAINTENANCE AND REPAIR (cont.)

CHANGING THE BRUSH

- Tilt machine backwards onto the handle (Make sure tanks are emptied out!)
- Unscrew mounting screw (picture H) next to kick-stand.
- Pull off bearing cover in the direction of the arrow and remove together with the brush towards rear.
- Position new brush on bearing cover and push both parts together as far as possible.
- Insert brush into suspension, making sure that all pins of the driver are guided into the holes of the brush on the drive side.
- Secure brush with mounting screw.

TROUBLESHOOTING

WARNING

Service and repairs should only be performed by authorized personnel.

Symptom: Machine does not run! No power to the machine!

Problem: Machine not plugged in.

Solution: *Plug machine into power outlet.*

Problem: Blown fuse/circuit breaker in the building / room 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 requires a dedicated 15 amp circuit.*

Problem: Power supply interrupted.

Solution: *Have power supply checked by authorized technician.*

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

Solution: *Have an authorized service technician check cord and replace if necessary. Have an authorized service technician open switch panel and check for loose wire connection.*

Problem: Overheat protection tripped.

Solution: *Allow motor to cool.*

Symptom: Insufficient vacuuming power! Loss of vacuum!

Problem: Tank cover/dome not properly seated or gasket on dome damaged/worn out.

Solution: *Reseat tank cover correctly or replace damaged gasket.*

Problem: Vacuum hose and/or squeegees are clogged up with dirt, or vacuum hose is not correctly inserted into dome.

Solution: *Remove dirt and/or properly attach vacuum hose.*

Problem: Filter in recovery tank is clogged up.

Solution: *Clean filter with clean water.*

Problem: Recovery tank drain hose not properly closed.

Solution: *Close properly.*

Problem: Squeegees not lowered to floor.

Solution: *Lower squeegees with lever (B-5).*

Problem: Defective vacuum motor.

Solution: *Have an authorized service technician replace vacuum motor.*

TROUBLESHOOTING (cont.)

Symptom: Poor cleaning performance!

Problem: Worn brush.

Solution: Replace brush.

Problem: Improper chemical for cleaning job or improper dilution.

Solution: Change chemical or adjust dilution.

Symptom: Motors (vacuum, brush & pump) will not run!

Problem: Fuse blown or circuit breaker in the building / room 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 requires a dedicated 15 amp circuit.

Problem: Faulty **ON/OFF** switch.

Solution: Have an authorized service technician replace switch or switches.

Problem: Loose wiring.

Solution: Have an authorized service technician trace and repair.

Problem: Faulty motor.

Solution: Have an authorized service technician replace motor.

Symptom: Little or no solution flow.

Problem: Solution lines or spray nozzles blocked.

Solution: Flush out solution tank and lines with clean water. Clean spray nozzles.

Problem: Solution tank filter clogged.

Solution: Remove cover of solution line filter and clean filter screen.

Problem: Solution tank supply hoses kinked.

Solution: Inspect hoses.

Problem: Solution tank empty.

Solution: Refill solution tank.

Symptom: Squeegee assembly making stripes.

Problem: Worn squeegee blades.

Solution: Replace squeegee blades.

Problem: Dirt clogged under squeegee blades.

Solution: Clean out squeegee blades.

TECHNICAL SPECIFICATIONS

Technical specifications
Technische Daten
 Caracteristiques techniques
 Caratteristiche tecniche

Technische gegevens
Tekniska data
 Especificaciones técnicas
 Dados Técnicos

Voltage Spannung Tension Tensione	Spanning Spänning Tensión Tensão	120V/60Hz
Theoretical cleaning capacity Theoretische Flächenleistung Surface possible à nettoyer Capacità di pulizia teorica	Theoretische reinigingscapaciteit Teoretisk ytkapacitet Rendimiento teórico Capacidade de limpeza teórica	6,425 sq.ft./hr.
Vacuum Motor Saugmotor Moteur d'aspiration Motore d'aspirazione	Zuigmotor Sugmotor Motor aspiración Motor de aspiração	106 inches / 180 mbar
Capacity solution tank Inhalt Frischwassertank Contenance réservoir eau fraîche Portata del serbatoio dell'acqua pulita	Inhoud verswatertank Innehåll renvattentank Capacidad tanque de agua limpia Capacidade do reservatório de água limpa	9 gal. / 33 lt
Capacity recovery tank Inhalt Schmutzwassertank Contenance réservoir eau sale Portata del serbatoio dell'acqua sporca	Inhoud vuilwatertank Innehåll smutsvattentank Capacidad tanque de agua sucia Capacidade do reservatório de água suja	12 gal. / 45 lt
Squeegee width Saugbreite Largeur d'aspiration Larghezza d'aspirazione	Zuigbreedte Sugbredd Ancho de aspiración Largura da aspiração	17 inches / 44 cm
Working width Arbeitsbreite Brosses plat Spazzola del disco	Schijfborstel Tallriksborste Cepillo impulsor Escova de disco	12.5 inches / 32 cm
Overall length Gesamtlänge Longueur hors-tout Lunghezza complessiva	Totale lengte Total länge Longitud total Comprimento total	38 inches / 97 cm
Overall height Gesamthöhe Hauteur hors-tout Altezza complessiva	Totale hoogte Total höjd Altura total Altura total	39 inches / 99 cm
Overall width (machine) Gesamtbreite (Gerät) Largeur hors-tout (machine) Larghezza complessiva (macchina)	Totale breedte (apparaat) Total bredd (maskin) Ancho total (máquina) Largura total (máquina)	19 inches / 48 cm
Weight (complete) Gewicht Poids Peso	Gewicht Vikt Peso Peso	80 lbs. / 36 kg
Water quantity Wassermenge Quantité eau Quantità d'acqua	Waterhoeveelheid Vattenmängd Volumen de agua Quantidade de água	0 – 0.55 gal./min

Subject to changes within the framework of technical progress

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.