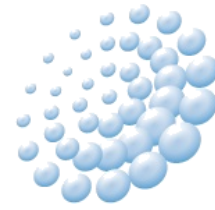


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OSPREYDEEPCLEAN®
STEAM CLEANING TECHNOLOGY



REVOLUTION USER MANUAL

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OSPREYDEEPCLEAN WARRANTY

OSPREYDEEPCLEAN provides a comprehensive warranty, which is offered in addition to the customer's statutory rights. This is a standard one (1) year guarantee, from the original date of purchase, and is subject to the machine being used in accordance with the Manufacturers Operating Instructions.

Any fault with the machine that is a result of defective parts or workmanship within one (1) year of the original purchase date will be repaired/replaced free of charge. Any faults or defective parts that have been caused by, or are a direct result of, operator misuse invalidates this warranty. This warranty is extended for the boiler only, to three (3) years.

All OSPREYDEEPCLEAN machines must only be repaired by OSPREYDEEPCLEAN trained engineers using genuine OSPREYDEEPCLEAN spare parts. The use of replacement parts other than genuine OSPREYDEEPCLEAN parts may void the warranty provided by OSPREYDEEPCLEAN to yourselves.

OSPREYDEEPCLEAN disclaims liability for any failure or accident resulting from the use of parts other than genuine OSPREYDEEPCLEAN supplied parts.

OSPREYDEEPCLEAN does not offer a warranty of any kind on accessories or hoses due to the differing levels of use these parts incur with different operators.

Any repair work and spare parts, either fitted within the warranty period or when the warranty has expired, are further guaranteed for three months from the date of the work being carried out.



REVOLUTION STEAM CLEANER

Schools, guest houses, small hotels and restaurants, fast food outlets, butchers, nursing homes, leisure centers, gymnasiums and swimming pools—in fact anywhere requiring efficient cleaning and sanitizing—the Revolution is the answer to your cleaning problems.

The Revolution is extremely versatile, and can be used for everything from tile and grout restoration to gum removal.



USE OF DETERGENTS — DISCLAIMER



ONE OF THE PRINCIPAL ADVANTAGES OF STEAM IS THAT IT TAKES AWAY THE NEED TO USE DETERGENTS. HOWEVER, WE RECOGNIZE THAT IN CERTAIN SITUATIONS THE ADDITION OF A DETERGENT CAN ASSIST THE POWER OF STEAM AND SPEED UP THE CLEANING PROCESS. OSPREYDEEPCLEAN PROVIDES A RANGE OF APPROVED DETERGENTS TO BE USED VIA THE DETERGENT FACILITY FOR OCCASIONAL USE.

DUE TO THE LARGE NUMBER OF CLEANING PRODUCTS AVAILABLE IN THE MARKETPLACE, WE CAN ONLY PROVIDE A GENERAL GUIDELINE FOR THE USE OF NON OSPREYDEEPCLEAN APPROVED DETERGENTS. THESE DETERGENTS SHOULD BE OF NEUTRAL PH VALUE FROM REPUTABLE MANUFACTURERS.

OSPREYDEEPCLEAN WILL NOT ACCEPT ANY RESPONSIBILITY AND WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE USE OF ANY NON APPROVED DETERGENT OR CHEMICAL AGENT WITH OUR MACHINES, AND THE USER REMAINS SOLELY RESPONSIBLE FOR ANY POTENTIAL DAMAGES.

MACHINE SPECIFICATIONS

| | |
|----------------------------------|---------------------|
| STAINLESS STEEL BOILER CAPACITY | .8 GALLONS |
| HEATING TIME | 9 MINUTES |
| PRESSURE IN USE (KINETIC ENERGY) | 6 BAR |
| MAXIMUM BOILER TEMPERATURE | 329°F NOMINAL |
| MAXIMUM POWER RESTRICTED TO | 1500 WATTS |
| POWER REQUIREMENT | 110 VOLT |
| APPROX WEIGHT | 52 POUNDS |
| ASSEMBLED SIZE (L x W x H) | 31 x 16 x 41 INCHES |
| VACUUM MOTOR | 1200 WATTS |
| WASTE TANK CAPACITY | 4 GALLONS |

MAIN SAFETY FEATURES OF THE REVOLUTION

- Boiler Pressure Safety Valve
- Pressure Gauge
- Boiler Thermostat
- Auto Thermostat cut off
- Silicon Covered, Flame Resistant Electric Cables

BENEFITS OF THE REVOLUTION

- Greatly reduces the use of solvents, detergents, disinfectants, etc.
- Substantial reduction in water usage and associated disposal costs
- Reduction of labor costs through increased productivity
- Built in safety features
- Environmentally friendly cleaning, sanitizing and degreasing



HEALTH & SAFETY

Safe Operation

OspreyDeepclean products are designed and built to give continued and superior safe performance, provided:

- A. They are commissioned, operated and maintained in accordance with the recommendations given in this manual.
- B. Periodic attention is given, as necessary, to maintain the steam generator in good functional order. Recommended maintenance guidelines are given in "Maintenance."
- C. Risk assessment documentation and written scheme of examination documents are available upon request.

The function of this steam generator is to facilitate safe, effective and efficient cleaning. In keeping with every other mechanical/electrical device, it cannot be considered as being functionally infallible and therefore the vigilance of responsible and trained operating staff for possible malfunction is possible.

Provided it is operated and maintained within these recommendations, the risk of malfunction, if not eliminated, is reduced to the minimum achievable or reasonably anticipated. Use of this steam generator in conditions outside of the recommendations provided in this manual can affect performance and reduce the effective service life, and can present potential risk to users; under such circumstances no liability for damage or injury can be accepted by OspreyDeepclean Ltd.

Legal Scope of this Manual

- These instructions contain all the information needed for the correct and safe use, handling and maintenance of the REVOLUTION steam cleaner.
- Familiarization with, and observance of, these instructions leads to the safe use and maintenance of this steam generator.
- It is recognized that these instructions cannot cover all possible situations or eventualities.
- If you need further information, or particular problems arise that have not, in your opinion, been explained fully in these instructions, please contact your local Distributor or Service Center, or the Manufacturer directly.
- All legal obligations of the Manufacturer are based on the terms of the sales contract, which also contains the full and exclusive terms and conditions of the guarantee.
- These instructions do not limit or extend the contractual conditions of the guarantee.

This manual contains information protected by copyright. It may not be reproduced or translated into other languages without the prior written authorization of the Manufacturer.

SAFETY REGULATIONS

Usage - This steam generator must only be used for its designated purpose: a steam generator with cleaning accessories. The vacuum **must not** be used for any other purposes other than those laid out within this manual; i.e. it is not designed to pick up general dirt.

The manufacturer will not be held liable for any damages arising from the improper, incorrect or unreasonable use of this appliance.

Power Supply - Before connecting the steam generator, check that the data on the voltage rating plate are the same as the mains supply. The rating plate is found at the rear of the steam cleaner.

THIS STEAM GENERATOR MUST BE EARTHED.

Use of a residual current device (RCD) for additional safety is strongly recommended.

The following rules **MUST** be observed when using this steam generator:

NEVER use the appliance barefooted, or in wet conditions

NEVER use power supply extension cables without approved safety marks

NEVER exceed an extension cable length of 80 feet and ensure it has a minimum section of 12 mm.

NEVER pull at the power supply cable, and never allow it to rub against sharp edges, or get caught between doors or drawers; protect the cable from heat, stress and moisture, and route away from paths/work areas

NEVER allow children or inexperienced, untrained, or unauthorized people access to this steam generator, never leave the **REVOLUTION** unattended when switched on

NEVER leave it unprotected from adverse weather conditions (rain, ice, etc.)

NEVER allow any part of this steam generator to be immersed in liquid

NEVER use the **REVOLUTION** on or near heat sensitive materials as it can damage them.

(If you are unsure whether the material you want to clean is suitable for steam cleaning, check first with a trial application on a small unobtrusive piece of the same material.)

NEVER overfill the water and/or detergent tank and **ALWAYS** remove the plug from the electricity supply before re-filling the tanks with water and/or chemicals.

NEVER empty the waste water tank without following the recommended procedure.

NEVER aim the steam at people, animals, electrical switches, socket outlets or any other electrical appliances

NEVER pull the machine by the steam hose

Always unplug the power supply:

- **before** emptying the boiler,
- **before** cleaning or servicing the appliance,
- **before** parts are exchanged or removed,
- **when** not in use, even for a short period.
- **when** emptying the soiled water tank.
- **when** refilling the water and chemical canisters.

Use only authorized parts, components and accessories with this appliance.

For instance, should the power supply cable become damaged, it must be replaced only with the correct cable, obtainable (as with all components, parts and accessories) through the manufacturer, authorized Distributor or Service Center.

The steam temperature can reach **266°F** at the outlet, so never point the steam in your direction, at other people or animals, as this presents a real **danger of scalding**.

In the event of breakdown or malfunction, switch off the **REVOLUTION** and contact an authorized technician for repairs.

Electrical appliances and fittings (TV, radio, lights, etc.) should never be cleaned with steam, even when not connected to a power supply. Exercise extreme care when cleaning fixed electrical plant equipment; if in any doubt contact the relevant suppliers for advice.

The trigger switch on the pistol-grip **must not be depressed** when connecting the steam tube to the **REVOLUTION**.

Ensure that accessories are connected securely onto the pistol-grip, by pulling both parts against each other. They must be firmly fixed.

Do not use the metallic brushes on scratch-sensitive materials.

Use only on internal glass surfaces that are heat resistant. Exercise utmost care when cleaning glass surfaces in low temperatures; **gently pre-heat** the surfaces with steam before hand to reduce the possibility of damage and injury.

Any unauthorized tampering with this steam generator render the warranty void.

ALWAYS exercise care when accessing internal components. For example, steam associated components get **very hot** during operation and can **cool down very slowly after use**.

ALWAYS store the **REVOLUTION** in a safe, dry and frost-free place.

ALWAYS check daily before use that the power supply cable, plug and sockets are in good condition; check for visible signs of damage.

ALWAYS ensure that the **REVOLUTION** is kept upright, even when not switched on.

ALWAYS apply the brakes while the machine is in use.

ALWAYS use extension cables that are immersion proof and of at least the same dimension. Ensure that they are not twisted or damaged.

WORKING ENVIRONMENT

The environment in which you use your machine must meet the basic safety requirements, i.e. DO NOT use within range of potentially dangerous chemical vapor's.

Machine positioning, environment and overall work space are also important factors.

Ensure the operator leaves enough space to comfortably maneuver all round the machine. Working in a tight space leaving little or no room imposes poor working posture, makes movement difficult and can create hazardous situations.

To ensure the REVOLUTION operates efficiently, the ambient temperature should be between 50°F and 104°F with humidity lower than 90%.

Distilled water may be used and is particularly beneficial in areas of hard water to prevent scaling in the water.

GLOVES and GOGGLES MUST BE WORN AT ALL TIMES.

WARNING

**NEVER PULL THE MACHINE BY THE STEAM HOSE.
ALWAYS MANEUVER THE MACHINE USING
THE HANDLES.**

**BREAKDOWNS DUE TO INCORRECT HANDLING ARE NOT COVERED BY
THE WARRANTY.**

OPERATING INSTRUCTIONS

FIRST INSPECTION

- Remove the REVOLUTION from its original packaging and check for possible transportation damage (in which case DO NOT OPERATE the steam generator. Contact your Distributor or Service Center for advice.)
- Check that all accessories are present
- Lift the protective cover and plug the steam and vac hose into the steam hose connecting socket. When the plug is located correctly it will click into place.
- Fill the tank with 2 liters of water. **DO NOT ADD ANY KIND OF CLEANING CHEMICAL TO THE WATER TANK.**
- Connect the plug to the mains supply.
- Switch on the main switch. The Indicator Lamp will light up.
- Switch on the Boiler Switch.
- Choose the accessory that you wish to use. Connect it to the steam hose by clicking into place and fasten it. Before you start cleaning direct the nozzle into a suitable receptacle and depress the trigger on the handle to blow out any residual condensation from the steam hose.
- Open the steam adjusting knob and regulate it to the appropriate setting for the work to be done

- The indicator light will illuminate when the machine is ready and the pressure gauge will read 6 bar.
- Now direct the steam jet onto the surface you wish to clean and depress the trigger.
- As water in the boiler is used it is automatically replenished from the water tank until the tank is empty.
- The tank level warning light and an acoustic signal will alert you that the water tank is empty. You must stop using the machine at this point and refill the water tank.
- For use of the chemical injection facility press the right hand button on the handle for a minimum of 3 seconds or longer as and when required.

ONCE EMPTY, YOU MUST STOP USING THE MACHINE AND REFILL THE WATER TANK! FAILURE TO REFILL THE MACHINE IN TIME WILL ACTIVATE THE SAFETY SYSTEM CUT OUT AND THE STEAM GENERATOR WILL REQUIRE ATTENTION FROM AN OSPREYDEEPCLEAN QUALIFIED ENGINEER BEFORE THE MACHINE CAN BE USED AGAIN.

DESCRIPTION



- | | |
|--------------------------|------------------------------|
| 1. Water Tank Filler Cap | 2. Boiler Switch |
| 3. Main Switch | 4. Ready Light |
| 5. Boiler Pressure Gauge | 6. Steam & Vac Hose Socket |
| 7. Steam Pressure Knob | 8. Tank Level Light |
| 9. Wet / Dry Vacuum | 10. Protective Bumper Strips |
| 11. Chemical Tank | |

(For full details of the Display Panel please refer to the Operating Procedures)

CONNECTING THE ACCESSORIES

Select the most appropriate accessories according to the intended application. All of the accessories (except the small round brushes) can be connected to the pistol grip. The accessories connect with a double locking twist system and the procedure is ALWAYS the same.

ALWAYS USE PROTECTIVE EQUIPMENT WHEN CONNECTING and DISCONNECTING THE ACCESSORIES

VACUUM MODELS ONLY

The pistol grip and extension pipes have locking clips. Turn the clips CLOCKWISE (when views facing the pistol grip) to open the lock and turn ANTI-CLOCKWISE to close the lock. Insert the selected accessory fully into the locking clip, and rotate it anticlockwise to secure. Check that both parts are tightly connected by gently pulling them apart.

TO START CLEANING

Check the steam flow is appropriate, but NOT excessive, for the accessory and application. If necessary, adjust the steam volume regulator accordingly.

PRINCIPAL RULE OF STEAM CLEANING

USE ONLY AS MUCH STEAM AS YOU NEED!

EFFECTIVE CLEANING IS GENERALLY OBTAINED THROUGH THE COMBINATION OF HEAT, SLIGHT MOISTURE, AGITATION & (POSSIBLY) CLEANSER.

TOO MUCH STEAM WILL SOAK THE CLEANING AREA AND MAY REDUCE CLEANING EFFICIENCY!

EMPTYING THE WASTE TANK DURING CLEANING

It will be necessary to empty the waste tank after each use of the REVOLUTION. This will prevent any blockages while the machine is in use and avoid the risk of mold or bacterial growth in the waste water tank.

If the waste tank is not emptied regularly, an automatic alarm will activate. Switch off the heating, then the main **on/off** switch. It is recommended also that the REVOLUTION be disconnected from the mains power supply.

Open the lid to gain access to the waste tank. Remove and empty in appropriate area.

Use fresh water to rinse out the waste water tank. Remove any items from inside the tank that are likely to cause a blockage. Replace the waste tank and refit the lid. Reconnect the power, switch on the main on/off switch and wait for the pump to cease operating and then switch on the boiler.

Ensure that the lid is always installed correctly and keep all other objects out of the area. Never put anything on or around the tank as this may affect the performance of the unit.

To sanitize the waste bucket, inject steam into the bucket for 10 seconds.

EMERGENCY PROCEDURES

In the event of any malfunction, including any leakage from the appliance or interruption/change to its normal operation, unplug the appliance at the power supply IMMEDIATELY and take appropriate measures to ensure that the safety of operators, other persons and property is not endangered.

The cause of the malfunction should then be investigated by suitably authorized, trained and experienced persons only. DO NOT operate the appliance until the malfunction has been rectified.

AFTER USE

- Ensure that the trigger switch on the pistol grip is not depressed
- Turn off the heating switch
- Switch off the main **on/off** switch
- Disconnect power cable from the power supply socket.
- Press the trigger to release any excess steam and pressure.
- Open the front panel and disconnect the steam hose
- Place the accessories and the steam tube in the appropriate containers
- Used cloths can be machine washed. DO NOT use fabric softeners, as this reduces the absorbent capacity of the cloths.

MAINTENANCE

- The REVOLUTION is a purpose designed steam cleaner and requires little maintenance. DO NOT expose the REVOLUTION to freezing temperatures. Only use clean tap water to refill the boiler (DO NOT USE DISTILLED WATER)
- Clean your REVOLUTION regularly with a damp cloth. Occasionally, the REVOLUTION's high grade steel cabinet can be rubbed with oil to maintain its polished steel finish.
- Should the REVOLUTION require servicing, this must be conducted by authorized personnel only! DO NOT DISMANTLE the appliance or undertake procedures not described in this manual. Such action invalidates the warranty. Notify all service requirements to your Distributor or Service Center.

RECOMMENDED SERVICE FOR THE REVOLUTION MACHINE

A post installation inspection should be carried out at approximately 500 working hours. This consists of inspecting water and chemical filters and boiler level sensor. Also a visual inspection of the interior for condition.

If all components are clean and in good condition, a further inspection would not be required for another 500 working hours.

**Recommended Full Service – Minimum 1 per year
(2 services may be required if machine is heavily used)**

ONLY AUTHORIZED AND TRAINED PERSONS MUST UNDERTAKE DESCALING PROCEDURES. FOR THIS REASON THESE PROCEDURES HAVE BEEN REMOVED FROM THIS VERSION OF THE MANUAL.

PHOTO GUIDE

PHOTO GUIDE



AFTER USE MACHINE & ACCESSORY CARE GUIDE

After using your OspreyDeepclean steam cleaner the following procedure must be carried out to ensure the machine remains in a sanitized condition.

- All accessories (e.g. brushes & nozzles) must either be steam cleaned or washed with a solution of warm water and an approved disinfectant after use.
- Once cleaned, ensure all accessories are thoroughly dried and stored in the clean and dry accessory bag provided.
- Extension tubes must be cleaned internally using steam preferably, or a solution of warm water and an approved detergent and shaken thoroughly to dry. Allow to dry completely before storing.
- To clean the machine, remove the waste bucket and empty the residue in a suitable place. Then the waste bucket can either be cleaned with steam or with a solution of warm water and an approved disinfectant. This should be done after each use or once a week if the machine is not in daily use.
- The hose vacuum inlet should be immersed in approx. two liters of clean tap water and using the machine vacuum suck the water through the hose and into the waste bucket. The hose needs to be hung vertically to allow excess water to drain out.
- The waste bucket must now be rinsed through with clean tap water, emptied and thoroughly dried. This must be done after each use or once a week if not in daily use.
- All accessible interior and exterior surfaces of the machine should be wiped over with a solution of clean water and an approved disinfectant or preferably steam and thoroughly dried with a clean dry cloth.
- The machine should now be stored in a cool, dry atmosphere and away from any heat source. i.e. radiators, boilers or central heating units.

Standard REVOLUTION Accessories

| | | | |
|---|---|--|---|
|  | Funnel A00007 |  | Window Squeegee A00077 |
|  | (3) Detail Brush (Nylon) A00020 |  | Steam Lance A00071 |
|  | (3) Detail Brush (Brass) A00022 |  | Detail Extension Nozzle A00069 |
|  | (2) Extension Tube A00055 |  | Detail Gulper Nozzle A00075 |
|  | Multi Function Tool A00063 |  | Small Gulper Nozzle A00081 |
|  | Carpet Cartridge Insert A00065 |  | Brush Insert A00079 |
|  | Brush Cartridge Insert A00068 |  | Central Connector Hose A00202 |
|  | Hard Floor Cartridge Insert A00066 |  | Long Detail Nozzle A00070 |
|  | Safety Goggles A00096 |  | Safety Gloves A00097 |

DISCLAIMER

The information contained in this document is furnished without warranty of any kind. Users should consider this data only as a supplement o other information gathered by themselves and must make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of their employees and customers.



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