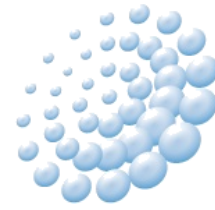


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**OSPREYDEEPCLEAN<sup>®</sup>**  
STEAM CLEANING TECHNOLOGY



# COSMOS 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.



# COSMOS STEAM CLEANER

With four boilers supplying about 120 lbs. of super-heated steam per hour at 145 PSI this is the supreme industrial cleaner.

The Cosmos achieves the highest level of hygiene in the manufacturing environment and is particularly well suited to static operation in conjunction with a belt cleaner to ensure the highest levels of hygiene.

Available with chemical facility, optional continuous water supply facility and belt cleaning facility.



## **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 FORE 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	4 x 2 GALLONS
WATER TANK CAPACITY	6.6 GALLONS
HEATING TIME	9 MINUTES
PRESSURE IN USE (KINETIC ENERGY)	10.5 BAR
MAXIMUM BOILER TEMPERATURE	356°F NOMINAL
MAXIMUM POWER RESTRICTED TO	36000 WATTS
POWER REQUIREMENT	480 VOLT
CABLE LENGTH	13 FEET
APPROX WEIGHT	198 POUNDS
ASSEMBLED SIZE (L x W x H)	43 x 32 x 43 INCHES

## MAIN SAFETY FEATURES OF THE COSMOS

- Boiler Pressure Safety Valve
- Pressure Gauge
- Boiler Thermostat - Temperature Limit 385°F
- Auto Thermostat cut off
- Silicon Covered, Flame Resistant Electric Cables

## BENEFITS OF THE COSMOS

- 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
- Stainless steel build quality for durability
- 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 COSMOS 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 **COSMOS** 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 **COSMOS** 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 **COSMOS** 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 **COSMOS**.

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 **COSMOS** 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 **COSMOS** 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 COSMOS 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**

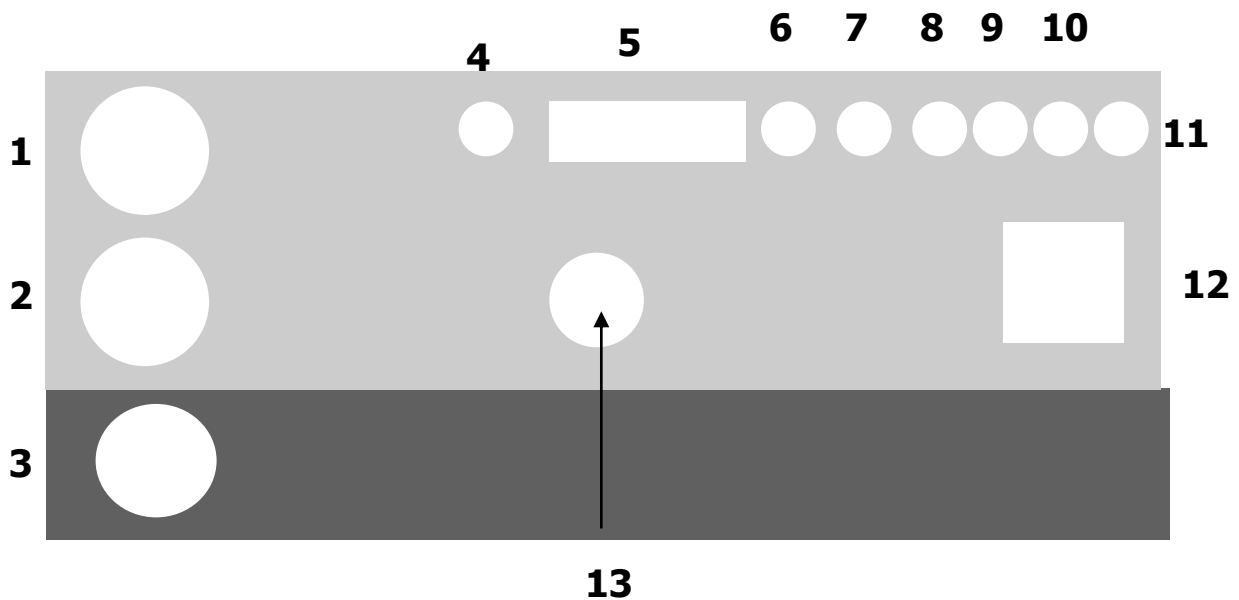
- Remove the COSMOS from its original packaging and check for possible transportation damage (in which case DO NOT OPERATE the steam generator. Contact your Distributor or Service Center for advice.)
- Check that all accessories are present
- Secure the bar handle to the rear of the steam generator with the four (4) bolts provided
- Unscrew the filler cap and carefully fill the tank with the required amount of water.  
**DO NOT ADD ANY KIND OF CLEANING CHEMICAL TO THE WATER TANK!  
DO NOT FILL WITH DIRTY OR RECOVERED WATER**
- Switch on at the power supply and switch the on/off switch from 0 to 1 to start the machine
- When the machine is on, the power light will be illuminated
- The pump light will come on as the boiler is automatically filled. Wait until the light goes out. This shows the boiler is full.
- Switch on the boiler at the boiler switch. After approximately 9 minutes the machine will reach 10 bar steam pressure and the water inside the boiler will have reached a temperature of approximately 356°F.
- The Ready Indicator Light on the front of the machine will illuminate when the machine is ready for use.
- Ensure that the trigger switch on the pistol grip is not depressed. Lift the protective cover and plug the steam hose into the Steam Hose Connector socket. When the plug is located correctly it will click into place. Any required extension pipe(s) and tools can then be attached to the other end of the hose assembly.



- Now direct the steam jet onto the surface you wish to clean and depress the trigger.
- As the water in the boiler is used it is automatically replenished from the water tank until the tank is empty.
- When the tank is empty a warning light and an alarm will sound to alert the operator that the tank is empty.

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.

### CONTROL PANEL



- |                           |                              |
|---------------------------|------------------------------|
| 1. Pressure Gauge         | 2. Emergency STOP            |
| 3. Steam Volume Knob      | 4. Hours Run 999+            |
| 5. Temperature Gauge      | 6. Hours Run 0 - 999         |
| 7. Boiler Switch          | 8. Ready for use Light       |
| 9. Pump Indicator         | 10. Tank Level Warning Light |
| 11. Power Light           | 12. Main on/off Switch       |
| 13. Continuous Fill Light |                              |

(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**

## 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!

---

## 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 COSMOS is a purpose designed steam cleaner and requires little maintenance. DO NOT expose the COSMOS to freezing temperatures. Only use clean tap water to refill the boiler (DO NOT USE DISTILLED WATER)
- Clean your COSMOS regularly with a damp cloth. Occasionally, the COSMOS's high grade steel cabinet can be rubbed with oil to maintain its polished steel finish.
- Should the COSMOS 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 COSMOS 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.

## COSMOS Accessories

	2 inch Round Brush <b>A00005</b>		Triangular Brush <b>A00006</b>
	Funnel <b>A00007</b>		2 inch Round Brush <b>A00052</b>
	(3) Detail Brush (Nylon) <b>A00020</b>		Central Connector Steam Gun <b>A00098</b>
	(3) Detail Brush (Steel) <b>A00021</b>		20 inch Vented Hooked Nozzle <b>A00952</b>
	(3) Detail Brush (Brass) <b>A00022</b>		40 inch Vented Hooked Nozzle <b>A00953</b>
	20 inch Fan Nozzle <b>A00954</b>		Industrial Hooked Nozzle <b>A00955</b>
	Industrial Fan Nozzle <b>A00956</b>		53 inch Vented Hooked Nozzle <b>A00957</b>
	Safety Goggles <b>A00096</b>		Safety Gloves <b>A00097</b>
	5 meter Industrial Steam Hose w/ Quick Disconnect <b>A00962</b>		

## **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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