

**WITH LIGHTNESS TAKE UP WATER'S CULTURE**

# GENERAL PRESENTATION OF *VIP CLEAN* CLEANING SYSTEM AND PRODUCTS

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# INTRODUCTION

VIP Clean, acronym of *Very Important Purewater*, is an exclusive and innovative line dedicated to cleaning systems with **pure water.**

VIP Clean products are been designed and conceived to meet the requirements of people who need ecological, safe, technical and professional products to clean **indoor and outdoor windows, facades, surfaces, floors, solar panels and boats.**



# LIMIT OF WATER

Water has a good cleaning power, but it is not pure because it contains a wide variety of **dissolved minerals, salts, bacteria, microscopic organic materials and other impurities**. Rainwater for example contains minerals that give the water its distinguished taste and can also lead to spotting on your windows when it fall upon them. This is one of the main problem when we have to clean windows or shiny surfaces: **streaks and spots on them caused by water's impurities**.

Moreover, traditionally, window cleaning has been performed with soap and water. Soap is effective in breaking down the dirt and cleaning the glass. Though squeegeed clean, **soap film** and residue can be left behind and over time soap builds up in the cracks of your window's frame.

For these reasons it is important to use **micro-filtered or purified water**, in order to avoid the creation of such residues on the glass and not damage the surfaces.



# TECHNOLOGICAL REVOLUTION IN CLEANING SYSTEMS

## PURE WATER TECHNIQUES

### REVERSE OSMOSIS

Reverse osmosis (RO) is a membrane-technology filtration method that removes many types of large molecules and ions from solutions by applying pressure to the solution when it is on one side of a selective membrane.

The result is that the solute is retained on the pressurized side of the membrane and the pure solvent is allowed to pass to the other side. To be “selective,” this membrane should not allow large molecules or ions through the pores (holes), but should allow smaller components of the solution (such as the solvent) to pass freely.

This process is the finest water filtration technique and it is used for water purification, desalination and for the removal of residues like phosphate, calcium, heavy metals, pesticide and radioactive materials.

### SOFTENING WATER WITH RESIN

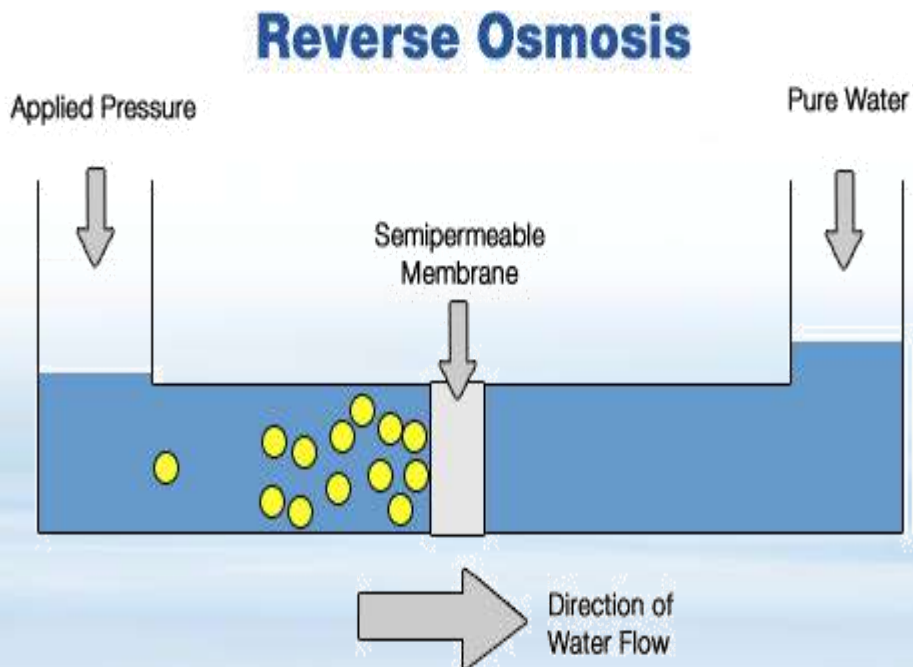
Softening water is a process to treat hard water based on the principle of ion exchange. Water softening methods mainly rely on the removal of  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  from a solution or the sequestration of these ions. Removal is achieved by ion exchange and by precipitation methods.

The water to be treated passes through a bed of the resin. Negatively charged resins absorb and bind metal ions, which are positively charged. The resins initially contain univalent (1+) ions, most commonly sodium. Divalent calcium and magnesium ions in the water replace these univalent ions, which are released into the water. The “harder” the water, the more hydrogen, sodium or potassium ions are released from the resin and into the water.

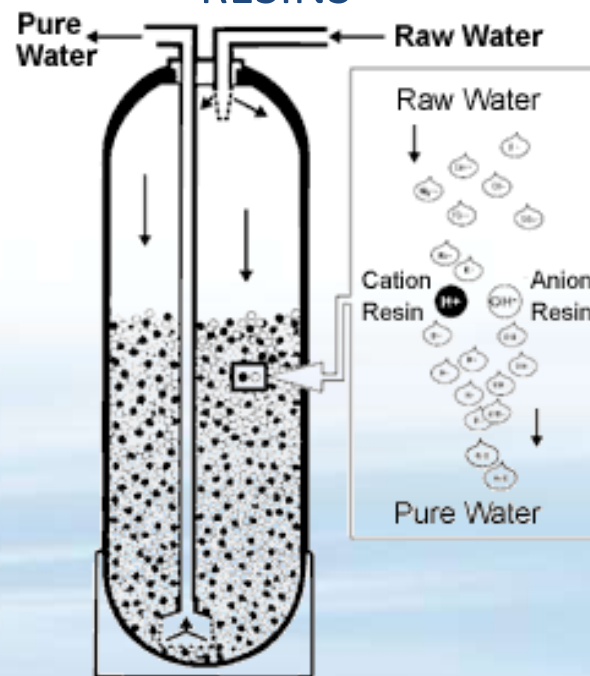


## PURE WATER TECHNIQUES

### REVERSE OSMOSIS



### SOFTENING WATER WITH RESINS



# TECHNICAL COMPARISON

## ADVANTAGES AND DEFICIENCIES OF MIXED BED

### ADVANTAGES

- Low starting cost

### DEFICIENCIES

- Cost for resins replacement (2000 l)
- The exhausted resins must be disposed with risk of pollution and related high costs
- Deep fall of quality
- Risk to stop the cleaning for replace the resins

**MORE USE**

**MORE COST**



# TECHNICAL COMPARISON

## ADVANTAGES AND DEFICIENCIES OF REVERSE OSMOSIS

### ADVANTAGES

- Zero variable costs
- Infinite duration of the membrane
- Constant quality of water produced
- Totally eco-friendly
- Possibility to work non-stop with no relation to the liters of water used

### DEFICIENCIES

- High starting purchase cost

**MORE USE**

**LESS COST**



# OUTDOOR LINE

Thanks to a long experience and knowledge in the water filtration and within the cleaning sector, we developed **a line of products that works with pure water created with reverse osmosis system.**

This process allows to eliminate many types of molecules and ions (like lime, minerals, metals and every polluting substances) forcing water through an **osmotic membrane** at determinate pressure conditions.

Our products have an additional process of **cartridge filtration** (5 micron and coal filters) in order to have a **higher quality** of treated water in terms of technical performance and **eco-friendly** usage.

The outdoor products of OUT line are available in different versions depending on the quantity of pure water produced per hour.

The fields of use are the cleaning of **windows and outdoor surfaces, solar panels and boats.**





# OUTDOOR LINE MAIN FEATURES

- EXCELLENT FOR EVERY CLEANING SITUATION
  - SAFE AND ECO-FRIENDLY
  - QUALITY OF CLEANING OPERATION



## FOR EVERY CLEANING SITUATION

- POSSIBILITY TO OVERCOME ANY OBSTACLES THANKS TO THE MACHINE'S WHEELS
- WORK UNTIL 200 mt WITH HOSE AND POLES
- LOW WEIGHT OF THE MACHINES
- FAST AND EASY USE: ONLY TAP WATER PRESSURE AND ELECTRICITY
- SUITABLE FOR EVERY SITUATION THANKS TO HIGH QUALITY MODULAR AND TELESCOPIC POLES



## SAFE AND ECO-FRIENDLY

- WORK FROM THE GROUND: NO NEED TO BRING EQUIPMENT UP
  - NO PLATFORM OR SCAFFOLD
  - NO USE OF PUBLIC GROUND
  - NO USE OF PRIVATE PARKING AREAS
  - NO DAMAGE TO GREEN AREAS
  - NO SPECIALIZED OPERATORS
- ECO-FRIENDLY USING ONLY PURE WATER



## QUALITY OF CLEANING OPERATION

- **18-20 METERS HEIGHT** WORKING FROM THE GROUND
- SOLUTION OF LOGISTICAL PROBLEMS
- **FASTER WORK** RESPECT TO CLEANING OPERATIONS USING PLATFORM
- **QUALITY AND PERFORMANCE** OF CLEANING FOR EVERY TYPE OF DIRT. THE SYSTEM CAN BE USED EASILY
- ZERO MAINTENANCE COSTS



## THE FUTURE IS NOW

... to save money don't leave glasses, solar panels and boats  
like these.....



... KEEP THEM CLEANED WITH OUR SYSTEMS



# OUTDOOR LINE

EXAMPLES OF CLEANING OPERATIONS  
WITH OUT LINE MACHINES:  
***OUTDOOR WINDOWS***



## ***PV PANELS CLEANING***



# OUTDOOR LINE

## *OUTDOOR FACADES*





# OUTDOOR LINE

## *PV PANELS ON ROOF*



OUTDOOR CLEANING MACHINE:  
*OUT COMPACT*



80-100 l/h PURE WATER



UNTIL 10 m



FOR WINDOWS AND  
PV PLANTS UNTIL 50 kW



## OUTDOOR CLEANING MACHINE:

### *OUT MINI*



100-120 l/h PURE  
WATER



UNTIL 10 m



FOR WINDOWS AND  
PV PLANTS UNTIL 300  
kW



## OUTDOOR CLEANING MACHINE:

*OUT 1800*



200-220 l/h PURE  
WATER



UNTIL 18 m



FOR WINDOWS AND PV  
PLANTS UNTIL 1 MW  
2 WORKERS SIMULTANEOUSLY



## OUTDOOR CLEANING MACHINE:

*OUT 3600*



400-450 l/h PURE  
WATER



UNTIL 18 m



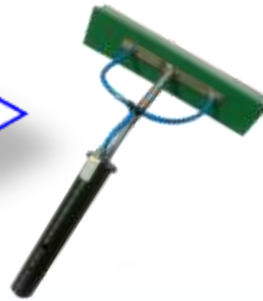
FOR WINDOWS AND PV  
PLANTS UP TO 1 MW

4 WORKERS SIMULTANEOUSLY



## MAIN ACCESSORIES AND OPTIONAL PARTS

DIFFERENT BRUSHES  
FOR TYPE OF  
CLEANING AND DIRT



HOSEREEL WITH  
HOSE UNTIL 200 m



CHEMICAL INJECTOR  
FOR VERY DIRTY  
GLASSES



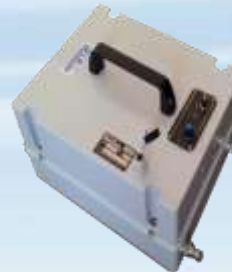
MODULAR AND  
TELESCOPIC CARBON  
FIBER AND ALUMINUM  
POLES



PORTABLE TANK



PORTABLE  
PUMPING UNIT



# PRODUCTS

## INDOOR CLEANING MACHINE: COVER 8.16



UNTIL 10 M WITH  
EXTRA POLES

80 cm VERSION FOR  
SMALL SPACES

160 cm VERSION FOR  
CONTINUOUS AND  
HIGHER WINDOWS



## INDOOR CLEANING MACHINE: COVER 8.16





## INDOOR CLEANING MACHINE: COVER 8.16

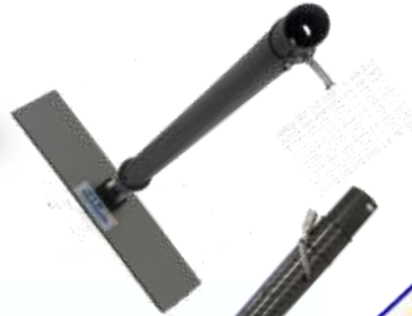


## INDOOR CLEANING MACHINE: COVER 8.16



## MAIN ACCESSORIES AND OPTIONAL PARTS

CARBON POLE FOR  
FLOOR CLEANING



EXTRA CARBON  
POLE FOR SURFACES  
UNTIL 10 m



EXTENDABLE POLE



DIFFERENT  
PADS  
FOR  
TYPE OF  
DIRT AND  
SURFACE



**FOR FURTHER INFORMATION  
PLEASE VISIT  
[WWW.VIPCLEAN.IT/EN](http://WWW.VIPCLEAN.IT/EN)**

**INDOOR  
CLEANING  
SOLUTIONS**

**OUTDOOR  
CLEANING  
SOLUTIONS**

**PHOTOVOLTAIC  
PANELS  
CLEANING  
SOLUTIONS**

**NAUTICAL  
CLEANING  
SOLUTIONS**

**DETERGENTS**

