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OPTIMA STEAMER™ GLOBAL NETWORK



 **SJE Corporation Ltd.**
Global Leader of Green solutions

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COMPANY OVERVIEW

SJE Corporation, Ltd. was established in 1991 in Busan, Korea. The company focused on introducing European commercial and industrial high pressure washer to the Korean market. Within a few years, SJE Corp. became the best reseller in the Korean high pressure washer industry.

As sales volume has increased, we have worked to develop an industrial steam cleaner. After several years of trial and error, SJE Corp has launched the Optima Steamer Series in 2004.

We have developed the “Optima Steamer” steam cleaner since 1991 with expertise and technology learned from our equipment cleaning experience.

Thanks to Optima Steamers’ user-friendly application, water-saving design and excellent quality, customers in over 117 countries have benefited from steam cleaning and cleaning.

We have been dedicated to research and development of steam cleaning equipment to meet the needs of various customers all over the world.

As a “green” manufacturer, we are proud of our commitment to high quality products, customer satisfaction and environmental conservation.

CERTIFICATION



COMPANY HISTORY

- 2018. 04** Selected as “Small Giant Company” by the Ministry of SMEs and Startups of the Korean Government
- 2016. 07** Won the “Grand Prize for Small and Medium Entrepreneur” awarded by the Mayor of Busan Metropolitan City
- 06** Selected as “The Best Venture Company” by the Korea Venture Business Association
- 2014. 12** Nominated as “National Top 100 Human Resource Development Enterprise by Small & Medium Business Administration
- 04** Patent for **STEAM BOILER** registered in the United States Patent and Trademark Office
- 2013. 10** Established a new production facility (over 8,265 square meters)
- 05** Obtained CSA(Canadian Standards Association) certification
- 2012. 08** Nominated as a Global Top Rank Enterprise by Small & Medium Business Corporation
- 2011. 12** Awarded the Prime Minister Citation for its contribution to export growth
- 2010. 01** Established US office in California, USA
- 2009. 11** Obtained a NRTL certification (qualified for “cTU-Vus”) for the Optima Steamer
- 2008. 07** Obtained quality certification ISO9001;2000
- 04** Obtained an EU quality certification “CE” Mark for Electromagnetic Compatibility
- 2003. 05** Opened a Customer service centre & show room in Seoul, Korea.
- 1998. 09** SJE took over the high pressure washer business from LG Industrial Systems Co., Ltd.
- 1995. 06** Established new office and production facility.
- 1991. 01** Founded SeongJin Engineering Co. , professional distributor of industrial high pressure and cleaning equipment

WHY STEAM?

CLEAN ANYWHERE



Car wash, Detailing & Auto Repair, Food Processing Factories, Wineries, Breweries, Commercial Kitchens, HVAC, Solar Panels, Boat Docks, Hospitals and more. Generating virtually no waste water or overspray, the Optima Steamer can be used to quickly clean in places no one else can.

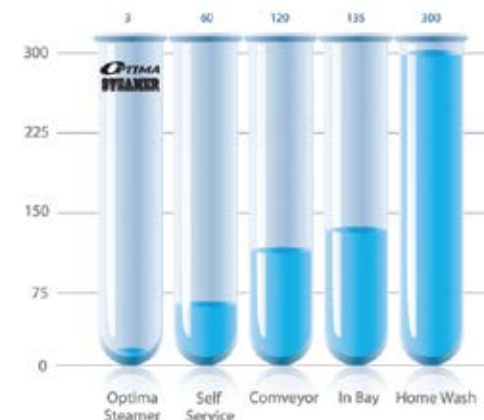
CLEAN EXTREME



Steam sanitizes and disinfects while it cleans. Chemicals cover up odors and mask stains. Steam penetrates pores, fibers and microscopic surface abrasions. When you use the Optima Steamer to clean, you're cleaning extreme.

SAVE WATER

Average water consumption per car wash type(Liters)



The Optima Steamer's patented boiler design super heats water into what we in the industry call "Dry Vapor Steam". Dry Vapor Steam will powerfully clean while using a tiny fraction of water compared to conventional cleaning methods—such as pressure washing or handwashing.

SAVE MONEY



Using less water and doing jobs quicker means you'll save money. Steam will allow you to offer your customers more services and for a premium rate. And because it can be used anywhere, you can offer services that you only thought possible if you installed drainage and reclamation systems.

TESTIMONIALS



1. Josh V., Detail Green USA / California, USA

"The Optima Steamer is amazing. I've been detailing cars as a mobile service for about 6 years now and always hated dealing with water run-off polluting the ocean in my home town of San Diego, not to mention the city restrictions on water usage and the hassle it was to lay down a wash mat and reclaim all of my water."

2. Mohammed Al Juburi, Fast Steps Co. for General Trading and Contracting / Baghdad, Iraq

"I purchased and used Optima Steamer in Turkey. I was very satisfied with its excellent performance. It wasn't so difficult to use, maneuverable, required little maintenance. I am so happy that I could have a chance to see the machine and learn new technology and work together with SJE Corporation."



3. Rahul, Steam Car Wash / Chattisgarh, India

"After using Optima Steamer, my traditional car wash business has changed to a smart and professional car wash business. With Optima Steamer, I can also provide door step service. My workers look neat and clean. My customers are now more satisfied with the internal hygiene of the car. Thank you Optima!"

4. Mr. Steve B., Lethbridge Auto Detailing / Alberta, Canada

"I am just writing to tell you that I have had my Optima for a week now and I must say it is the most amazing piece of Equipment, I have detailed my Wife and Sons vehicles to practice on and the results were incredible, I am so pleased with it I can't tell you how much!! I hope my Business becomes so busy I have to order another one!! Thanks again, it was a real pleasure and so easy dealing with your Company and I wouldn't hesitate in recommending your products to others"




5. 刘一诺, 东营华胜工贸有限公司 / 山东, 中国 Candice, Dongying Huasheng Industrial & Trade Co., Ltd / Shandong, China

"We are honored to be a sole distributor for Korea, SJE Corporation Ltd. in China. We haven't found any single product which is better than OPTIMA Steamer in terms of quality and performance. Dongying Huasheng has more than 500 Auto beauty chain shops. Most of our chain shops use OPTIMA Steamers. OPTIMA Steamer is effective to clean car paint, deeply clean the engine and sanitize interior of vehicle using high temperature steam. Our customers are satisfied with the machine."


DIESEL STEAMER




Optima XD




Optima
XD




Optima DMF




Optima
DMF



Optima DS



Optima
DS



	XD	DMF	DS
Operating Voltage	1-Phase 208-240V 50Hz/60Hz	1-Phase 208-240V 50Hz/60Hz	1-Phase 220V 60Hz
Operating Pressure	8.5 Bar	8.5 Bar	8.5 Bar
Max Pressure	9.5 Bar	9.5 Bar	9.5 Bar
Max. Temp. at Gun Tip	135°C	135 °C	135 °C
Boiler Temp.	178°C	178 °C	178 °C
Flow Rate	300~1,200 cc/min	300~1,200 cc/min	300~1,200 cc/min
Preheating Time	3 min	3 min	3 min
Electrical Power	0.3 KW	0.3 KW	0.3 KW
Water Tank Capacity	36 ℓ	36 ℓ	17 ℓ
Fuel Tank Capacity	36 ℓ	36 ℓ	17 ℓ
Fuel Consumption	0~4 ℓ / hr	0~4 ℓ / hr	0~4 ℓ / hr
Net Weights	93.5 kg	83 kg	91.5 kg
Unit Dimensions	995 x 660 x 887 mm	1,060 x 700 x 890 mm	765 x 500 x 775 mm
Included Hoses/Guns	2 hoses, 2guns	2 hoses, 2guns	2 hoses, 2guns
Available Colors	Red	Red, Green, Blue, Yellow	Blue

ELECTRIC STEAMER

Optima XE Product Features



Optima
XE



Optima EST Product Features



Optima
EST



	XE			EST			
	12K	18K	27K	5K	12K	18K	27K
Operating Voltage	3-Phase 208V ~ 600V	3-Phase 208V ~ 600V		1-Phase 208-240V	3-Phase 208V ~ 600V		3-Phase 380V ~ 600V
Operating Pressure	8.5 Bar			8.5 Bar			
Max Pressure	9.5 Bar			9.5 Bar			
Max. Temp. at Gun Tip	135 °C			135 °C			
Boiler Temp.	174 °C			174 °C			
Flow Rate	300 ~ 600 cc/min	300 ~ 900 cc/min	300 ~ 1,200 cc/min	150 ~ 400 cc/min	300 ~ 600 cc/min	300 ~ 900 cc/min	300 ~ 1,200 cc/min
Preheating Time	9 ~ 10 min	7 ~ 8 min	7 ~ 8 min	20 ~ 21 min	9 ~ 10 min	7 ~ 8 min	
Electrical Power	12.2 KW	18.2 KW	27.2KW	5.2 KW	12.2 KW	18.2 KW	27.2 KW
Water Tank Capacity	72 ℓ			40 ℓ			
Net Weights	84 kg	85 kg	91.5 kg	69.5 kg	72.5 kg	73.5 kg	79.5 kg
Unit Dimensions	995 x 660 x 887 mm			1,060 x 700 x 890 mm			
Included Hoses/Guns	1 hose, 1 gun	2 hoses, 2 guns	2 hoses, 2 guns	1 hose, 1 gun		2 hoses, 2 guns	
Available Colors	Red			Red, Green, Yellow, Blue			

FOOD-GRADE ELECTRIC STEAMER

Optima SE II Product Features



	SE II		
	18K	27K	42K
Operating Voltage	3-Phase 208V ~ 600V		3-Phase 380V ~ 600V
Operating Pressure	8.5 bar		
Max Pressure	9.5 bar		
Max. Temp. at Gun Tip	135 °C		
Boiler Temp.	174 °C		
Flow Rate	300 ~ 900 cc/min	300 ~ 1,200 cc/min	300 ~ 1,500 cc/min
Preheating Time	7~8 minutes		
Electrical Power	18.1 KW	27.2 KW	42.2 KW
Water Tank Capacity	38ℓ		
Boiler Type	STS 304, Immersion Electric Heater		
Net Weights	103 kgs	110 kgs	119 kgs
Unit Dimensions	910 x 560 x 870mm		
Included Hoses/Guns	2 hoses, 2 guns		

VACUUM CLEANERS & WET EXTRACTOR



Mirage 1215



Mirage 1215



Mirage 1629



Mirage 1629



GS 2/62



GS 2/62



	Mirage 1215	Mirage 1629	GS 2/62
Voltage and Frequency	1Ph, 230V 50/60Hz	1Ph, 230V 50/60Hz	1Ph, 230V 50/60Hz
Motor Power	1.05kW [1.4HP] (max. 1.2kW [1.6HP])	2.1 kW [2.81HP] (Max. 2.4 kW [3.21HP])	2.1 kW [2.81HP] (Max. 2.4 kW [3.21HP])
Vacuum Depression	2,200 mmHgO	2,200 mmHgO	2,470 mmHgO
Air Flow	170 m³ / hour	340 m³ / hour	420 m3 / hour
Tank Capacity	25 liters / 6.6 gallons	78 liters / 20.6 gallons	62 liters / 16.4 gallons
Suction Hose	Dimensions 36mm [1.41"], Length: 2.5m [8'2"]	Diameter: 40mm [1.57"], Length: 2.5m [8'2"]	Diameter: 38mm [1.50"], Length: 2.5m [8'2"]
Liquid Suction	Yes	Yes	Yes
Tank Material	Stainless Steel	Stainless Steel	Stainless Steel
Net Weight	10 kg / 22 lb	24 kg / 52.9 lb	29 kg / 63.9 lb
Net Dimensions	39[L] x 39[W] x 62[H] cm / 15.4[L] x 15.4[W] x 24.4[H] inch	60[L] x 60[W] x 96[H] cm / 23.6[L] x 23.6[W] x 37.8[H] inch	62[L] x 62[W] x 92[H] cm / 24.4[L] x 24.4[W] x 36.2[H] inch

ACCESSORIES – OPTIMA STEAMER

No. A70015



Steam Gun K26

No. A70024



Power Steam Gun RL37

No. A70019



Power Steam Gun RL22

No. A70274



Steam Gun K26 with Quick Coupler

No. 85-50047



Steam Gun K26 with quick coupler, KC35

No. 85-50056



Floor Spinner with Quick Plug, KPS45

No. 85-50038



Weed Control, Roller

No. 85-53006



Floor brush, KPS45

No. 85-50037



Weed Control, Flat

No. 85-50036



Weed Control, Spear

No. 85-50035



Weed Control, Brush

No. 85-50077/85-50080/85-50060/85-50061



Lance with Broush Holder + Quick Plug, KPS45 L250/400/700/1000

No. 85-50079/85-50080/85-50060/85-50061



Steam Nozzle + Quick Plug, KPS45 L300/500/600/1000

No. A70947



Steam Gun with Combination Brush Kit

No. A70948



Steam Gun with Combination Scrubber Kit

No. A70026



Steam Nozzle 3.5 + Quick Plug

No. A71607



Silence Steam Nozzle + Quick Plug

No. A71608



Turbo Steam Nozzle with Quick Plug

No. A70025



Flat Fan Nozzle 50 + Quick Plug

No. A70247



Flat Nozzle 50 + Quick Plug

No. A70248



Flat Nozzle 100 + Quick Plug

No. A71605



Hand Tool A-Type, D.38 - PF3/8

No. 85-50088



Heat-Resistant Vacuum Hose D.38, 3m

No. A70030



Steam Hose

No. A70039



Power Steam Hose

No. 85-50051



Spray Bottle 350ml with Quick Plug

No. 85-50135



Barrel Wand with Bimetal Thermometer 4V.

No. 85-50094



Omega Softener kit

No. 70284



Round Brush D.100 Nylon

No. 71391



Brush with Polyester Bristles 60mm

No. 71392



Small Brush with Polyester Bristles 30mm

No. 71393



Small Brush with Steel Bristles 30mm

No. 71394



Plastic Scraper 50mm

No. 70287



Pad 100

No. 70288



Pad Holder 100

No. 85-50091



Mop wand with squeegee

No. A70010/A70011/A70012



Steam Gun K26 with Nozzle L300/500/600



MOBILE CAR WASH



Make Your Car Gleam with Steam!

The steam generated by the Optima Steamer™ is hot enough to lift off any grease and soilage. It produces enough pressure to break down dirt, caked-on dust and mud efficiently.

Comprehensive Car Cleaning Services at Your Doorstep!

It is becoming a global trend to get your car washed by on-demand, Smart App-based mobile car cleaning services. Once you make an on-line booking via Mobile App., mobile van will come to your location and take care of your car while you go about your day.

AUTO DETAILING & REPAIR



Complete & Simplified Operation

Steam is now a vital part of the automotive repair industry. The Optima Steamer™ leaves no residue and dries almost instantly, avoiding the hassles of clean-up and wastewater runoff.

The Optima Steamer™ also speeds up the cleaning process by easily removing compound in the tightest cracks and crevices.

A Clean Automotive Facility Leaves a Good Impression on Customers

The Optima Steamer™ not only cleans cars, but also keeps your shops in spotless condition. Remove grease residue, oil stains, and other blemishes from your equipment to maintain your shop's presentation.

MOTORBIKE, RV, TRUCK & BUS

Clean All Modes of Transportation with the Optima Steamer™

Modern engines almost require cleaning with vapor steam, a cleaning method that's safe with today's sophisticated electronics and sensitive infrastructures. The Optima Steamer™ not only thoroughly washes your vehicles, but also sanitizes the interior and refurbishes greasy engine parts anew.

A New Innovative & Green Niche

Where a pressure washer consumes 150 to 300 litres of water, a steam cleaner can cut that amount down to about 4 litres per a vehicle wash. It can also reach the tightest spaces and fittings that would otherwise be completely inaccessible with a pressure washer.



FOOD PROCESSING



Total Sanitation

Most of pathogens are known to be eliminated at 78°C. The Optima Steamer™ is constantly able to produce hot dry steam at a pressure and temperature of 8.5–9.5 bar and 100–135°C at the nozzle tip, ensuring total sanitation of unwanted micro-organisms.



Clean and Sanitize Hard-To-Reach Areas

If your preparation area is older with scratches, dents, visible cracks or rusted and pitted areas allowing food particles trapped and bacteria to multiply, it may be impossible to clean using the method described in your SSOP. Steam cleaning might get the area "clean enough"



WINERY & BREWERY



Thorough Sanitation via Dry Steam

The Optima Steamer™ is ideal for the wine industry, making cleaning operations throughout the facility simple and more effective. Dry vapor steam travels much faster than liquid water and can reach deep into harborage areas and the wood pores of barrels. This allows for thorough sanitation, killing Brett and Zygo as well as countless other microorganisms.

Barrel Cleaning

Nooks and crannies are the favorite places for bacteria to hide in barrels, but being in gaseous form, steam will effectively penetrate the cellulous structure of the wood. Also with the high temperature, tartrate removal is considerably easier, taking far less time and using virtually no water.



EXTERIOR & HARD SURFACE CLEANING



Unsurpassed Standards of Exterior Surface Cleaning

Graffiti, unwanted tagging and marking on the street posts, bulletin boards and building walls tend to spread like a virus. It is a big job to remove layers of layers of paints and taggings by the conventional cleaning method which is extremely laborious, difficult and also very inefficient, usually leaving the surface wet and damaged.

Hassle-Free Cleaning System

The Optima Steamer™ removes graffiti and taggings using a fraction of water than conventional methods without chemicals and intensive scrubbing. Steam heat and pressure break them up for easy removal and an overall quicker cleaning process without damaging the original material.



HVAC

Why Clean Coils?

Cooling coils trap dust, soil, grime, and other troublesome deposits that reduce the heat transfer efficiency of HVAC units. Although a coil may look clean on the surface, the majority of the debris is logged within the coil. What most people see is dirt accumulation on the fins that are designed to protect the coil. The coil which we usually do not see is located inside behind the fins.

Save Energy and Money

A sandwich wrapping thickness of debris on AC coils can increase energy consumption over 20% which requires more electricity and in turn, this will result in higher utility bills.

Removal of built-up dirt and grime from cooling coils with Optima Steamer™ improves system efficiency, reduces electricity consumption, and ensures a long operating life of the unit.



SOLAR PANEL

Why Clean Solar Panels?

Solar panels are designed to absorb the sun's rays as a source of energy for generating electricity or heating. Due to the upwards angle of solar panels, they are more prone to bird droppings, dust and dirt that does not wash off with just rain. This build-up of dust, dirt, pollen, bird droppings and other debris reduce the amount of light hitting the panels and adversely affect optimal Solar Panel Efficiency.

Cleaning Solar Panels That Had Been in Operation for 15 Months Doubled Their Output of Electricity.

Rain is not a satisfying way of cleaning solar panels. Solar panels that were cleaned professionally had a 12% higher output of electricity compared to those cleaned by rain. This literally means that they will generate 15-25% less electricity and this easily adds a couple of years extra on the pay-back time.



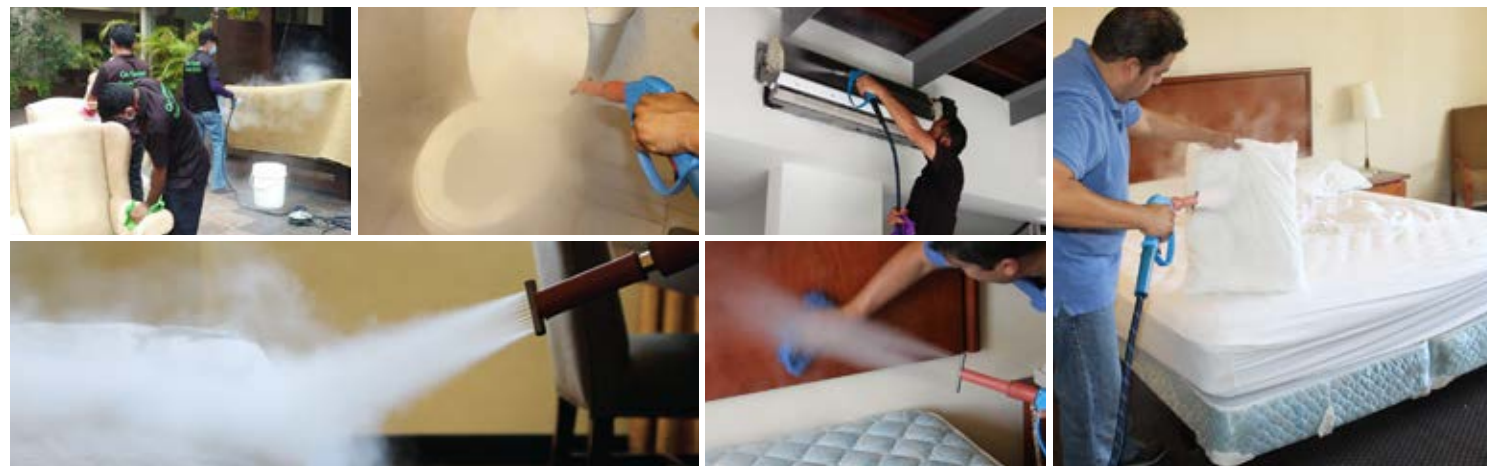
RESIDENTIAL CLEANING

A Professional Cleaning Solution to Help Prevent Harmful Bacteria

Bacteria are everywhere, but some areas are more likely to breed harmful bacteria. Dust mites, allergens and bacteria are all seeking asylum in your mattresses and carpets. As you clock in your 8 hours of sleep, you are also breathing in allergens that can cause asthma. Optima Steamer™ specializes in deep cleaning, sanitizing and deodorizing with chemical-free approach, leaving no water residue behind.

Better for Your Family Members

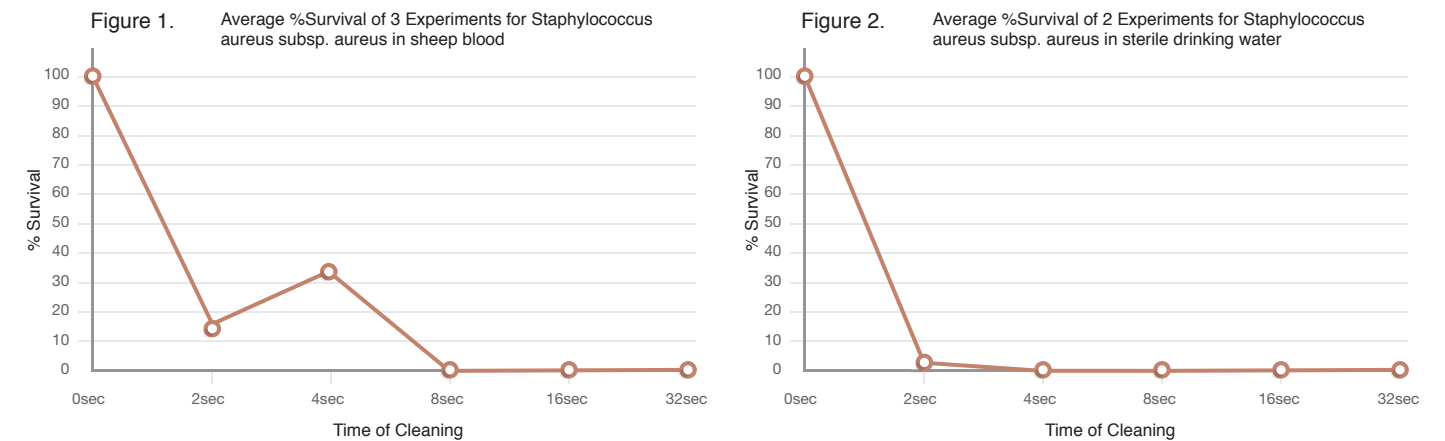
Cleaning with steam protects you and your family. Unlike detergents, the condensed steam leaves no potentially allergy-inducing residues behind on the surfaces it cleans. This is particularly important for small children who like to put things in their mouths. Accidents caused by using the wrong cleaning agent, skin irritation or other negative health effects are no longer an issue thanks to steam.



MEDICAL



Reduction in the Microbial Load on High-Touch Surfaces in Hospital Rooms by Treatment with a Portable Dry Steam Vapor



The study suggest that controlled use of the Optima Steamer™ reduced bacterial levels by 100% and reduced pathogen levels on most surfaces to below the detection limit after 8 seconds of steam spraying. The Optima Steamer™ provides a means to reduce levels of microorganisms on hospital surfaces without the drawbacks associated with chemicals, and may decrease the risk of cross-contamination.



URBAN WEEDING



Environmental Alternative for Urban Weeding

Currently, weeding in urban areas is usually carried out by responsible authorities/organizations using a variety of harmful chemicals. These chemicals usually corrode the surrounding area and ultimately harm the environment. The Optima Steamer™ generates pressurized high temperature steam which bursts the cells of the plants and sterilizes the soil. This leads to restriction and stunting of new growth. This is achieved without harm to the surrounding vegetation by using a directional spray gun. Optima Steamer™ is also able to disinfect general urban areas.



Picture taken immediately after the Optima Treatment



Picture taken **ONE DAY LATER**



Picture taken **THREE DAYS LATER**

MARINE



Safely Remove Dirt and Mold

Fiberglass material can be easily stained and damaged with traditional cleaning chemicals, whereas the light pressure of steam safely removes dirt and odours from all surfaces. It will sterilizes a boat's interior, killing bacteria, germs and other nasties from soft fabrics and upholstery.

The Tough Job Expert

Steam supports the regular maintenance of the hull by loosening barnacles and killing mould while preserving the wax on surfaces so your hard labour won't be lost. Using steam to maintain your boat prevents future complications and protects its long-term re-sale value.

