



Santoemma

Professional Cleaning Machines



Since 1980



CAR Wash Interior Cleaning program



CAR Wash Interior Cleaning Program

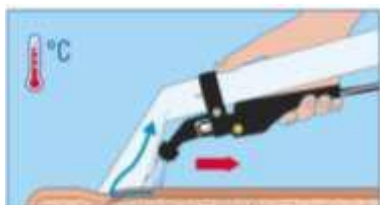
Santoemma **CAR Wash Interior Cleaning Program** includes several machines and chemicals suitable for professional cleaning of seats, upholstery and inside of cars. Different cleaning systems are available in order to comply with the specific application need and the operators' cleaning preferences.

Injection-extraction cleaning



A solution of water and chemical is sprayed into the fibers of the textile and immediately sucked. The solution and the dirt removed are recovered in the machine body.

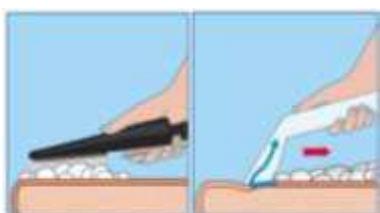
Injection-extraction cleaning with instant hot water system



In seat and textiles cleaning, the cleaning result can be sensibly improved by using a **HOT solution**, instead of room temperature solution. Specific tests show that cleaning textiles with just 10°C more can give the same result as cleaning twice. Santoemma instant heating system allows to get hot water immediately after switching

the machine on. It is not necessary to wait a long time before the whole solution tank gets warm, as it happens with some machines on the market. The solution sprayed on the textile surface is hot, for a much better cleaning result.

Foam Extraction cleaning



A special **dense foam** is sprayed on the textiles and is sucked after some seconds. Dense foam does not penetrate deep inside the textiles, therefore allowing a short drying time: seats can be dry in 20 minutes!

In order to obtain the special dense foam, the chemical solution is mixed with compressed air, obtained by a dedicated air compressor. The quality of foam is therefore much better than the "liquid foam" of machines without compressor. Thanks to its optimal density, dense foam penetrates for few millimetres in the superficial layer where the dirt lies. It does not remain only on the surface, as it happens with "dry foam". Therefore dense foam allows an excellent cleaning result, even without any mechanical brushing action. The manual tool is very light and compact, for cleaning many seats quickly and without effort. Its shape also allows to reach any corner.

HOT Foam Extraction cleaning



This system, patented by Santoemma, uses **HOT foam** to clean textile surfaces. HOT foam allows to get excellent cleaning even in situations on extremely dirty textiles and even shorter drying times. HOT foam is immediately available as the machine is switched on.

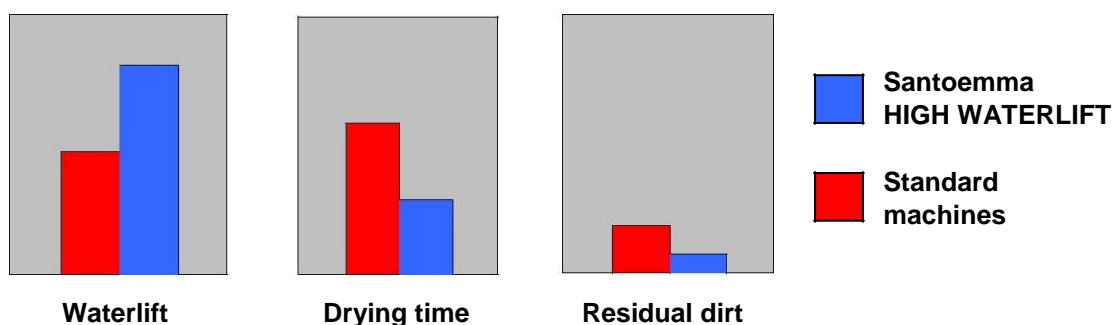
CAR Wash Interior Cleaning Program

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HIGH WATERLIFT technology

When cleaning textiles, the drying time after vacuuming strongly depends on the vacuum strength.

Specially designed **High Waterlift** vacuum motors are equipped on Santoemma machines, allowing to get up to 50% higher waterlift than standard extractors. This results in an extremely shorter **drying time** than with normal machines. Not only the drying time is reduced, but also a **better cleaning result** is obtained, since the extra solution extracted from fibers contains extra dirt removed from the surface. The same residual dirty solution, if left evaporating on textiles as it normally happens, would leave the surface not so clean as with high waterlift machines.



Cleaning systems and models

Models Cleaning Systems	Injection Extraction	HOT Injection Extraction	Foam Extraction	HOT Foam Extraction
SW15	X			
SW30	X			
SW30 BATTERY	X			
SW50	X			
SW70	X			
SW15 HOT	X	X		
SW30 + HT1800	X	X		
SW50 + HT1800	X	X		
SW70 + HT1800	X	X		
SW15 FOAM	X		X	
SW15 FOAM LIGHT	X		X	
SW15 HOT-FOAM	X	X	X	X
SW15 HOT-FOAM LIGHT	X	X	X	X
T-CLEAN	X	X		
T-FOAM			X	X

Application fields

The machines of Santoemma CAR Wash Interior Cleaning Program can be conveniently used in many places:

	SW15	SW15 HOT	SW30	SW30 BATTERY	SW50	SW70	SW15 FOAM	SW15 FOAM LIGHT	SW15 HOT-FOAM	SW15 HOT-FOAM LIGHT
Car washes	X	X	X	X	X	X	X	X	X	X
Garages	X	X		X			X	X	X	X
Car dealers	X	X		X			X	X	X	X
Car body shops	X	X		X			X	X	X	X
Parking areas				X						

Each model can be proposed as the best solution for specific application fields.

Injection-Extraction with cold or instant hot water

A solution of water and chemical is sprayed into the fibers of the textile and immediately sucked. The solution and the dirt removed are recovered in the machine body. Specially designed **High Waterlift** vacuum motors are equipped on Santoemma machines, allowing to get up to 50% higher waterlift than standard extractors. This results in an extremely shorter drying time than with normal machines. Santoemma **instant heating system** allows to clean with hot water, for a better cleaning result and a shorter drying time.



SW15 is a professional injection-extraction machine suitable for cleaning upholstery and inside of cars. Notwithstanding its little size, SW15 is suitable for professional use and it is also indicated for hard-work. The special **High Waterlift** vacuum system allows an excellent cleaning result and a very short drying time. With the optional wand NS270N it can be used to clean carpet and hard floor areas as well.



SW15 with optional cart



SW15 HOT is the smallest extractor with instant water heating.

The use of hot water allows a more effective cleaning of very dirty textiles.

Moreover, the special **High Waterlift** vacuum motor improves the cleaning result and allows a very short drying time. SW15 HOT can be loaded in a small car or carried on the top of the stairs without efforts thanks to its contained size and weight. SW15 HOT is supplied with the hand tool for cleaning upholstery and the inside of cars (NS10PN) and it can be connected also to other accessories for cleaning carpet and hard floor (NS270N).

SW30 is a professional injection-extraction machine, with 30 litres tanks for a long cleaning autonomy. Strong, compact and easy to carry, it is the ideal solution for cleaning upholstery and inside of cars. Its small width makes it particularly suitable for cleaning trains, busses, cinemas and planes as well.

The special **High Waterlift** vacuum system allows an excellent cleaning result and a very short drying time.

The hand-tool for upholstery cleaning is available in plastic (NS10PN) or in aluminium (NS10ALL). With the optional wand (NS300) it is possible to clean carpets as well. With the optional instant hot water unit (HT1800), the machine can clean with hot water, for an excellent cleaning result.



Injection-Extraction with cold or instant hot water

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SW30 Battery is a battery powered injection-extraction machine, ideal for cleaning inside of cars in areas where the power cord could be uncomfortable.

The batteries capacity allows to work for a whole day before recharging. The internal battery charger allows to recharge the machine just connecting it to an electrical wall socket.

SW50 is a particularly silent injection-extraction machine (60 decibel only!) with an excellent vacuum power, thanks to its three stages **High Waterlift** vacuum motor.

Dedicated brackets allow to hang hoses and accessory on the machine, to easily move the complete machine from site to site. It can be supplied with the instant hot water unit (HT1800), for an enhanced cleaning result.



SW70 is a professional extractor with two 3-stages **High Waterlift** vacuum motors, for an excellent result and a very short drying time. The two tanks, 70 litres each, enable a long autonomy of operation.

The hand tool for upholstery cleaning can be in plastic (NS10PN) or in aluminum (NS10ALL). With the wand NS300 it is possible to clean carpet as well. With the optional instant hot water unit (HT1800), the machine can clean with hot water, for an enhanced cleaning result.



HT1800 is an optional **instant heating unit** that can be used with Santoemma extractors, for cleaning textiles with hot water.

Cleaning with hot water allows to get a much better cleaning result and a shorter drying time.

The instant heating system allows to get hot water immediately after the machine is switched on. It is not necessary to wait a long time before the whole tank of the machine gets warm!



Foam Extraction with cold or instant hot foam

Foam extraction machines allow to clean upholstery and padded textiles with an excellent cleaning result and a short drying time. In fact, a special **dense foam** is sprayed on the textiles and is sucked after some seconds. The special dense foam does not penetrate deep inside the padding and therefore allows a short drying time: seats can be **dry in 20 minutes!** The drying time is even shorter thanks to the new **High Waterlift** technology used in Santoemma machines.



SW15 FOAM is a foam extraction machine containing inside itself the air compressor necessary for the production of the real **dense foam**. Therefore SW15 FOAM can be used in any place. Foam density can be adjusted.

SW15 FOAM LIGHT, patented, does not contain a compressor for the production of the compressed air which is necessary to create foam.

Compressed air is obtained by an external compressor. SW15 FOAM LIGHT is therefore smaller, lighter and cheaper than SW15 FOAM.



SW15 HOT-FOAM, thanks to a Santoemma patented system, is able to spray a special **HOT foam** on the surface to be cleaned.

HOT foam is even more effective than foam at room temperature and allows an even shorter drying time. Foam is instantly heated as soon as the machine is switched on.



SW15 HOT-FOAM LIGHT is a patented HOT foam extraction machine that does not contain a compressor for the production of the compressed air which is necessary to create foam.

Compressed air is obtained by an external compressor. SW15 HOT-FOAM LIGHT is therefore smaller, lighter and cheaper than SW15 HOT-FOAM.



Accessories and chemicals

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NSCARDUST is an optional accessory which allows to vacuum dust with a Santoemma machine of the models SW15 HOT, SW15 FOAM, SW15 FOAM LIGHT, SW15 HOT-FOAM and SW15 HOT-FOAM LIGHT.



Switching from vacuuming to injection cleaning or the opposite is very simple. To vacuum dust with NSCARDUST, there is no need to drain the recovery tank of the machine, dry it and insert the dust bag inside the recovery tank. In fact the dust is separately recovered inside the tool tank.



FOAM.LANCIA is an optional tool to spray pressurized foam. It is ideal for cleaning upholstered car ceilings and for working in places with many seats like buses and trains.



Optional hand tools are available, in transparent plastic (NS10PN) or aluminium (NS10ALL)



T-CLEAN

It is a special non-foaming chemical for textiles to be used with injection-extraction machines.



T-FOAM

It is a special foaming chemical for textiles to be used with foam-extraction machines. T-FOAM contains strong cleaning agents that remove the dirt and inhibits re-soiling. It performs an efficient bactericide action.



ANTI-FOAM

It is a de-foamer to be used with injection-extraction and foam-extraction machines.



The **STAIN REMOVAL KIT** contains three professional chemical for removing the majority of the most stubborn stains from carpet and fabrics:

- **BIO-ENZYME:** Enzyme digester chemical and deodoriser for carpets, upholstery and mattresses. It removes food, grease, vomit, blood, organic residuals and protein stains, leaving a pleasant perfume.
- **COFFEE STAIN REMOVER:** chemical for the removal of coffee, tea, red wine, fruit juice and highly coloured stains from carpet and fabrics.
- **ORANGE GEL:** thick gel solvent-base chemical for the removing of stains from carpet and upholstery. It removes oil, grease, chewing gum, tar and other stains, leaving a pleasant orange fragrance.

Technical data

	SW15	HOT	SW30	Battery	SW50	SW70	FOAM	FOAM LIGHT	HOT-FOAM	HOT-FOAM LIGHT
Recovery tank:	14 litres	14 litres	30 litres	30 litres	50 litres	70 litres	14 litres	14 litres	14 litres	14 litres
Solution tank:	14 litres	14 litres	30 litres	30 litres	50 litres	70 litres	14 litres	14 litres	14 litres	14 litres
Vacuum motor:	2 stages HW	2 stages HW	2 stages HW	2 stages HW	3 stages HW	2x3stages HW	2 stages HW	2 stages HW	2 stages HW	2 stages HW
Power:	1500 W	1500 W	1500 W	600 W	1500 W	2x 1500W	1500 W	1500 W	1500 W	1500 W
Max. waterlift (mmH ₂ O):	3000	3000	3000	1700	3400	3400	3000	3000	3000	3000
Max. air flow (l/sec.):	50	50	50	35	45	90	50	50	50	50
Pump with bypass:	vibrating	vibrating	vibrating	membr.	vibrating	vibrating	vibrating	vibrating	vibrating	vibrating
Power:	70 W	70 W	70 W	80W	70 W	70 W	70 W	70 W	70 W	70 W
Max pressure:	4 bar	4 bar	4 bar	6 bar	4 bar	4 bar	4 bar	4 bar	4 bar	4 bar
Max. water flow:	1,5 l/min.	1,5 l/min.	1,5 l/min.	2 l/min	1,5 l/min	1,5 l/min	1,5 l/min.	1,5 l/min.	1,5 l/min.	1,5 l/min.
Compressor	-	-	-	-	-	-	350W	External (not supplied)	350W	External (not supplied)
Instant heating system:	-	1800W (1500W at 100V)	Optional (HT1800)	-	Optional (HT1800)	Optional (HT1800)	-	-	1800W (1500W at 100V)	1800W (1500W at 100V)
Recommended dilution rate:	5%	5%	5%	5%	5%	5%	1 part detergent 4 parts water	1 part detergent 4 parts water	1 part detergent 4 parts water	1 part detergent 4 parts water
Cable length:	10 m	10 m	10 m	-	10 m	10 m	10 m	10 m	10 m	10 m
Hoses length:	2,5 m	2,5 m	5 m	5 m	5 m	5 m	2,5 m	2,5 m	2,5 m	2,5 m
Weight (machine body):	12 Kg	22 Kg	20 Kg	71Kg	42 Kg	45 Kg	38 Kg	20 Kg	48 Kg	28 Kg
Weight (packaged machine):	15 Kg	25 Kg	28 Kg	83Kg	54 Kg	57 Kg	55 Kg	33 Kg	65 Kg	45 Kg
Dimensions:	30x42x 53 cm	30x42x 66,5 cm	38x50x 78cm	38x70x 105cm	44x86x 94 cm	50x89x 98 cm	32x55x 87 cm	30x42x 66,5 cm	32x55x 97 cm	30x42x 77 cm
Package dimensions:	34x53x 70 cm	36x60x 76 cm	42x65x 91 cm	48x74x 126cm	54x94x 98 cm	54x94x 98 cm	42x65x 100 cm	36x60x 76 cm	42x65x 100 cm	42x65x 100 cm
Units/pallet	15 pcs/ pallet (88x120x 223cm)	15 pcs/ pallet (88x120x 223cm)	8 pcs / pallet (84x130x 194cm)	1 pc/ pallet (48x74x 126cm)	4 pcs / pallet (94x120x 210cm)	4 pcs / pallet (94x120x 210cm)	1 pc / pallet (42x65x 100cm)	8 pcs / pallet (80x120x 165cm)	1 pc / pallet (42x65x 100cm)	1 pc / pallet (42x65x 100cm)
Batteries	-	-	-	2x12V	-	-	-	-	-	-
Voltage:	230-240V 50-60Hz (available versions at 100V or 120V 50-60Hz)									
Standard colour:	Blue									
Tanks construction:	High density polyethylene									