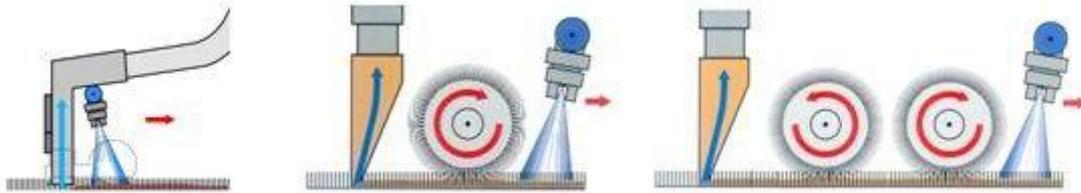


CARPET Professional Cleaning Program Introduction

Santoemma CARPET professional cleaning program includes the widest range of machines and accessories on the market, suitable for professional cleaning of carpeted areas. Reliability and robustness characterize the whole range. Santoemma developed unique systems and adopted special technologies, allowing to get the best cleaning results and the maximum performance.

Injection-extraction system with mechanical brushing action

With injection-extraction system, a solution of water and chemical is sprayed into the carpet's fibres and immediately sucked. The solution and the dirt removed are recovered in the machine body. The cleaning result is improved with the mechanical action of a rotating brush, which allows to remove dirt from the base of carpet fibres, for a complete cleaning of each fibre. No residual dirt will re-emerge from the fibres base on the carpet surface a few days after cleaning.

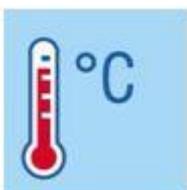
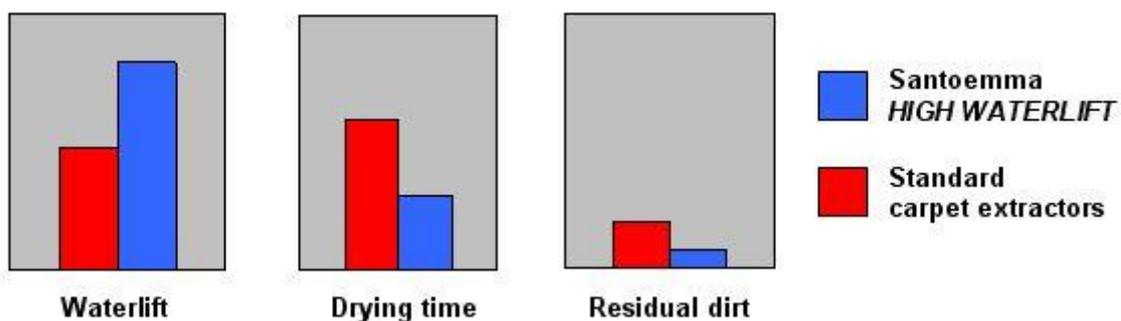


HIGH WATERLIFT technology

The drying time carpet of after cleaning highly depends on the vacuum strength.

Specially designed *high waterlift* vacuum motors have been developed for Santoemma machines, allowing to get up to 50% higher waterlift than standard carpet extractors.

This results in an extremely shorter drying time than with normal carpet extractors: carpet can be completely dry within 1 hour. Not only the drying time is reduced, but also a better cleaning result is obtained, since the extra solution extracted from carpet fibers contains extra dirt removed from carpet. The same residual dirty solution, if left evaporating on carpet as it normally happens, would leave the carpet not so clean as with Santoemma high waterlift machines.



Instant hot water system

In carpet 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 carpet with just 10jC 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 until the whole solution tank gets warm, as it happens with some hot-water machines on the market.



Carpet pre-spraying

A pre-spray of a chemical solution on carpet is usually recommended before starting cleaning, in order to facilitate the detachment of dirt from carpet fibers. This helps to get a better cleaning result and to accelerate the following cleaning operation as well. Pre-spray is normally performed using special pre-sprayers devices, either manual or electric.

Santoemma has developed a *patented pre-spray system*, allowing to pre-spray with the same extraction machine used for cleaning, providing a controlled and optimal chemical concentration. The operator does not have to use dedicated device. He can pre-spray surfaces very fast, thanks to the machine's pump high performances, and can rely on a high autonomy, for the complete machine's tank capacity. The waste of time due to frequent refilling of portable pre-sprayers is therefore eliminated.

Automatic Chemical dosing

The solution of water and chemical is normally obtained adding chemical into the solution tank. To get a correct concentration, it is necessary to calculate the quantity of chemical to be added, according to the solution tank capacity.

After cleaning, the residual solution in the tank is normally wasted. Santoemma developed a patented system to perform an automatic dosing of chemical during carpet cleaning, with many advantages (see **SMARTKIT system**).

Carpet rinsing to remove chemical residuals

After cleaning carpet with chemical, it is recommended to rinse the surfaces, in order to remove sticky residuals of chemical and dirt. The rinsing phase, though important, is only seldom performed because of the time it requires. For Santoemma models equipped with **SMARTKIT system** , it is possible to rinse carpet, simply turning a lever. Therefore no chemical is wasted and time is saved. Rinsing carpet at the end of the cleaning process, will make it re-soil as slowly as when it was new.

Maintenance low-moisture or Restoration deep-cleaning

Most of Santoemma machines are able to work both in maintenance or in deep cleaning modality, according to the dirt degree and to the time from last cleaning. For a maintenance cleaning, the minimum waterflow is sprayed on the carpet, while for a deep restoration deep-cleaning a powerful flow is sprayed, to completely clean very dirty carpets.



Carpet blowing after cleaning

A powerful blower (**ST810**) can be used after cleaning, accelerating the evaporation of residual humidity from carpet. Carpet will dry even faster.

The right machine for each area: BOX or SELF CONTAINED machines



Box extractors are composed by machine body, hoses and external wand used to spray and vacuum carpet. An optional *Power brush wand* can be used instead of the normal wand. By adding special optionals, a Santoemma box extractor can be transformed in a *Professional carpet cleaning set*, which combines all the cleaning factors in an optimal way, giving incomparable cleaning results.



Self contained machines incorporate the cleaning unit below the machine body. The operator moves the machine on the carpet surface, cleaning parallel stripes of carpet, with higher performances in terms of square meters cleaned per hour. External tools can be used as well, to clean hard-to-reach areas.

Foam extraction cleaning

In some particular areas, such as carpet or rugs near room entrance, or when the application requires an immediate availability of carpet after cleaning, carpet can be cleaned with foam, instead of a solution of water and chemical. Thanks to the special Santoemma **DENSE FOAM** technology, available on specific models of the range, it is possible to clean little areas of carpet with foam. Foam is spread on the surfaces, brushed and after some seconds vacuumed. This system can be also used for upholstery cleaning, to get a very short drying time after cleaning.

Some models can work with different systems, depending on the application and on the operators preferences. For some models the rotating brush action can be obtained connecting the machine to an optional power brush wand. The following table shows the cleaning systems for each model.

Models Cleaning Systems	Injection Extraction	HOT Injection Extraction	Injection Extraction +brushing	Foam Extraction	HOT Foam Extraction	Foam Extraction +brushing
Sabrina	x		with optional NS270BRUSH			
Sabrina HOT	x	x	with optional NS270BRUSH			
Sabrina Maxi	x	with optional HT1800	with optional NS270BRUSH			
Serena-Silent	x	with optional HT1800	with optional NS400BRUSH			
Grace	x	with optional HT1800/ NS400BR-DUAL-HT	with optional NS400BR-DUAL/ NS400BR-DUAL-HT			
Grace HP	x	with optional HT1800-HP/ NS400BR-DUAL-HT	with optional NS400BR-DUAL/ NS400BR-DUAL-HT			
Sharon Brush	x		x			
Charis	x	with optional HT1800	x			
Elite Silent	x	with optional HT1800	x			
Powerful	x	with optional HT1800	x			
Elite Battery	x		x			
Sabrina Foam + wand	x		with optional NS270BRUSH	x		with optional NS270BRUSH
HOT Sabrina Foam + wand	x	x	with optional NS270BRUSH	x	x	with optional NS270BRUSH
NS270BRUSH tool			x			with Sabrina Foam HOTSabrinaFoam
NS400BR tool			x			
NS400BR-HT tool		x	x			
T-CLEAN chemical	x	x	x			
T-FOAM chemical				x	x	x