

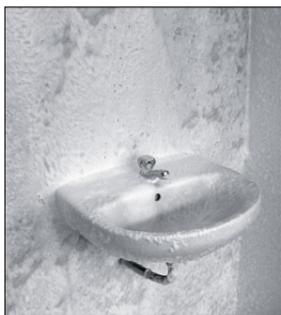


**Santoemma**  
Professional Cleaning Machines

Since 1980



**RESTROOM Cleaning and Sanitizing program**



## Santoemma RESTROOM Cleaning and Sanitizing Program

Cleaning and sanitizing public restrooms is an important problem worldwide, which has not found yet an optimal solution. Cleaning means removing the visible dirt from all surfaces, while sanitizing means removing not only visible dirt, but also invisible elements like bacteria, which can be responsible for disease transmission. This means that even after cleaning, a truly clean washroom should be periodically sanitized.

Santoemma RESTROOM Program provides innovative and patented systems for cleaning and sanitizing public restrooms of any size. By using specially designed machines, instead of manual work only, restrooms are completely cleaned and sanitized in a short time, with excellent and granted results. It is finally possible to reach a higher level in restroom's hygiene, increase productivity and have a higher fulfillment of the cleaning operators.

Specific systems and machines have been developed by Santoemma, in order to perfectly suit any area, according to the type and dimensions of the restrooms and to their recommended cleaning and sanitizing plan.

### **Powertec system: the solution for daily cleaning & sanitizing**

The Powertec system consists in using a unique machine to spray all the surfaces with a chemical solution, rinse the surfaces after few minutes and vacuum all the residual liquid from floor, leaving the room clean, sanitized and dry. This system is suitable to daily clean and sanitize small and medium-size restrooms. Two models are available: Powertec (cable powered) and Powertec Battery (battery powered).

### **Foamtec system: the power of foam for heavy-duty cleaning**

The Foamtec system was developed and patented by Santoemma as a revolutionary system to clean and sanitize public restrooms, by foaming, rinsing all surfaces and vacuuming the floor, using a single machine. Foam ensures an extended chemical action on the dirt and bacteria and is therefore ideal for many places which need an heavy duty action.

### **With Santoemma RESTROOM program it is possible to achieve:**

- |   |  |
|---|--|
| <input type="checkbox"/> Complete dirt removal                | <input type="checkbox"/> Customers' satisfaction       |
| <input type="checkbox"/> Complete sanitizing                  | <input type="checkbox"/> Operators' higher fulfillment |
| <input type="checkbox"/> Specific solutions for any area      | <input type="checkbox"/> Increased productivity        |
| <input type="checkbox"/> Maintenance and restorative cleaning | <input type="checkbox"/> Overall cost reduction        |

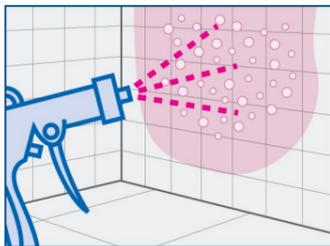
## Santoemma Powertec system



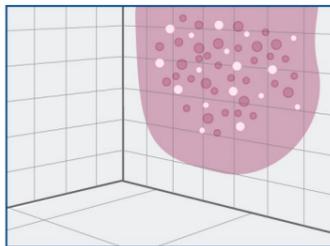
**Powertec** is a machine for cleaning and sanitizing small and middle-sized restrooms, in areas open to public. It combines spraying of chemical solution, rinsing and vacuuming. With Powertec restrooms can be completely cleaned, sanitized and left perfumed and dry in a short time, making the cleaning operations more effective and pleasant as well.

Using the machine is immediate and does not require any training for the operator. Small and light, Powertec can be easily stored or carried from place to place. Using optional tools, it can be also used as an injection-extraction machine, for carpet or upholstery cleaning.

Powertec can be used in many places: restaurants, fast-foods, pubs, discotheques, motorways cafés, offices, factories, shopping centres, exhibition halls, cinemas, theatres, stadiums, arenas, nursing homes, hospitals, schools, universities, city public WC, public showers, barracks, ferries, cruise ships, airports, railway stations, fitness centres, swimming-pools, saunas, spas, hotels and any other restroom open to public.



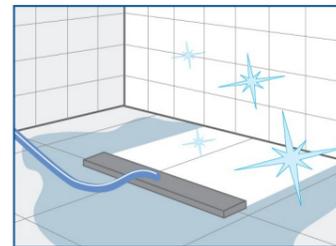
1 Spraying



2 Chemical action



3 Rinsing



4 Vacuuming

**Powertec Battery** is an innovative battery-powered machine for cleaning and sanitising public restrooms. Powered by batteries, the machine is extremely manoeuvrable and can be easily used in any place, without the discomfort of the power cable. It is ideal for hospitals, schools, universities, factories and any place where working without power cord is a big advantage.

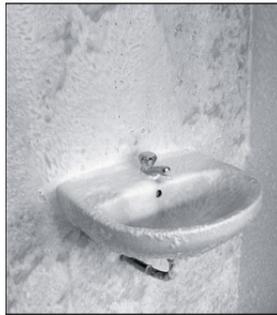
The internal battery charger allows to recharge the machine just connecting it to an electrical wall socket.



## Santoemma Foamtec system



1 Foaming



2 Chemical action



3 Rinsing



4 Vacuuming

The cleaning and sanitizing process is carried out through four stages:

- 1 Foam spraying on all the surfaces (walls, sanitary fixtures, showers, panes)
- 2 Foam chemical action against dirt and bacteria
- 3 Rinsing with fresh water, to remove foam residual from the surfaces
- 4 Vacuuming of residual liquid from floor



### The 10 advantages of the Foamtec system:

Santoemma patented Foam-Rinse-Vacuum system is the best solution to the problem of cleaning and sanitizing even very dirty restrooms, with several advantages on any other cleaning system:

1. **Better cleaning and sanitising result:** foam does not immediately fall onto the floor, but stays for some minutes on the surfaces where it has been sprayed. The foam prolonged action allows to make the most of the cleaning effect of the product, ensuring both cleaning and sanitizing.
2. **Visual effect** of foam: foam covers in white all the surfaces where it is sprayed such as walls, sinks, sanitary fixtures. The operator can therefore check that every corner has been covered, for a complete action in every point.
3. **The greatest hygienic safety for the worker**, who does not come into contact with the surfaces and the objects to be cleaned and who does not get wet by the bouncing water, because rinsing is done with low pressure.
4. **Reduced labour for the worker:** manual work is reduced to a minimum since the dirt is removed by the chemical action of foam and the mechanical action of rinsing.
5. This system, more comfortable and hygienic, gives a **greater fulfilment** to the worker.
6. **Saving of time:** while foam acts on the surfaces where it has already been sprayed, the worker is free to operate on other surfaces. Therefore, even a big room can be completely cleaned quickly and with no idle time.
7. **Detergent saving:** the chemical is used without waste because it does not immediately fall onto the floor.
8. **Reduced power consumption:** the machine requires little electrical power and therefore it can be used in any place.
9. **Reduced water consumption:** the system foam + rinse at low pressure requires a minimal quantity of water. This avoids the flood of rooms, allows a longer working autonomy and offers the immediate availability of the rooms that have been cleaned.
10. The machine can be used also in **places with no drains** because it can completely vacuum the water remaining on the floor after rinsing.



INNOVATION  
AWARD WINNER

## Santoemma Foamtec system

Three different models have been developed, with different capacities and autonomies, in order to adapt to places of different sizes.



Foamtec 15



Foamtec 30



Foamtec 70

## Accessories

All the machines are provided with the necessary accessories allowing to spray/foam, rinse and vacuum. According to the model, other accessories are supplied as standard or optional, such as: pane wiper, floor wiper, fleece. All the accessories can be stored on the machine, so they can be easily used and carried.

Thanks to a special accessory put on the floor, it is also possible to start vacuuming the liquid from floor, while the operator is rinsing. In this case, the wet vacuum tool is used in the end to dry the floor completely. While walls are left to dry alone, sanitary fixtures and special corners can be dried with a special blower hose, connected to the machine, without using any sponge and therefore avoiding any cross-contamination.



## IdroFoamRinse: cleaning areas with no need for vacuuming



**IdroFoamRinse** is an innovative machine, electrically powered, allowing to spray foam and rinse continuously. The water used for foaming and rinsing is directly taken from the water network, therefore the machine has an unlimited autonomy. Pure chemical is contained in its separate tank, and it is automatically used by the machine in a controlled quantity.

IdroFoamRinse is indicated to clean all the areas where the presence of a drain in the floor makes vacuuming not necessary, such as for example: **showers, saunas, swimming pools, camping grounds.**



## Chemicals

Santoemma developed a simple but complete range of chemicals, suitable to perform specific actions. Laboratory tests certify that the application of Santoemma chemicals on a surface for 3 minutes allows to kill 99,9% of bacteria, confirming the effectiveness of their sanitizing action.



**SANI-FOAM**

**SANI-FOAM** is a specific chemical for maintenance cleaning and sanitizing. It leaves a pleasant scent in the rooms.



**SUPER-FOAM**

**SUPER-FOAM** is a strong degreasing chemical, with high pH, for restoration cleaning and fat removal.



**ACID-FOAM**

**ACID-FOAM** is an acid chemical which can be periodically used to remove lime from showers, sanitary fixtures and other surfaces.

## Application fields

The machines of Santoemma RESTROOM Cleaning and Sanitizing Program can be conveniently used in any public restroom. For each area, the best solution can be chosen according to the restroom type and to the operator's cleaning preference. The following table shows the most suggested solutions for each area:

	Powertec	Powertec Battery	Foamtec 15	Foamtec 30	Foamtec 70	IdroFoam Rinse200	IdroFoam Rinse400
Restaurants, fast foods	X	X					
Pubs, discotheques	X	X	X	X			
Motorways café	X	X	X	X			
Offices	X	X					
Factories	X	X	X	X	X		
Shopping centres	X	X	X	X			
Exhibition halls	X	X		X	X		
Cinemas, theatres	X	X	X	X			
Stadiums, arenas		X		X	X		
Nursing homes	X	X	X	X			
Hospitals		X	X	X			
Schools, universities	X	X	X	X			
City public WC	X	X	X	X			
Public showers			X	X		X	X
Barracks				X		X	X
Ferries, cruise ships	X	X	X				
Airports		X		X	X		
Railways stations				X	X		
Fitness centres	X	X	X	X		X	X
Swimming pools			X	X		X	X
Saunas & Spas			X	X		X	X
Hotels (Spas and common areas)		X		X			
Camping grounds				X		X	X
Garbage storage bins and rooms			X	X		X	X

## Comparative technical data and performance

	<b>Powertec</b>	<b>Powertec Battery</b>	<b>Foamtec15</b>	<b>Foamtec30</b>	<b>Foamtec70</b>	<b>IdroFoam Rinse200</b>	<b>IdroFoam Rinse400</b>
Recovery tank capacity:	30 litres	30 litres	14 litres	30 litres	70 litres	-	-
Clean water tank capacity:	30 litres	30 litres	14 litres	30 litres	70 litres	-	-
Continuous filling system	YES	YES	YES	YES	YES	YES	YES
Vacuum motor: Power: Maximum waterlift: Maximum air-flow:	2 stages 1000 W 2200 mm H <sub>2</sub> O 50 l/sec.	2 stages 500 W 1300 mm H <sub>2</sub> O 35 l/sec.	2 stages 1000 W 2200 mm H <sub>2</sub> O 50 l/sec.	2 stages 1000 W 2200 mm H <sub>2</sub> O 50 l/sec.	2x2 stages 1000 W 2200 mm H <sub>2</sub> O 100 l/sec.	-	-
Pump with bypass: Power: Maximum pressure: Maximum water-flow:	membrane, int. by-pass 80 W 9 bar 4,5 l/min	membrane, int. by-pass 80 W 9 bar 4,5 l/min	membrane, int. by-pass 80 W 9 bar 2 l/min	Piston type, adj. pressure 180 W 28 bar 4 l/min	Piston type, adj. pressure 180 W 28 bar 4 l/min	membrane, int. by-pass 80 W 9 bar 2 l/min	Piston type, adj. pressure 180 W 28 bar 4 l/min
Compressor:	-	-	350 W	350W	350W	350W	350W
Approximate performance:	room with <b>100 m<sup>2</sup></b> of tiles +15 sanitary fixtures in <b>20 minutes</b>	room with <b>100 m<sup>2</sup></b> of tiles +15 sanitary fixtures in <b>20 minutes</b>	room with <b>25 m<sup>2</sup></b> of tiles +5 sanitary fixtures in <b>10 minutes</b>	room with <b>50 m<sup>2</sup></b> of tiles +10 sanitary fixtures in <b>15 minutes</b>	room with <b>120 m<sup>2</sup></b> of tiles +20 sanitary fixtures in <b>25 minutes</b>	room with <b>25 m<sup>2</sup></b> of tiles +5 sanitary fixtures in <b>10 minutes</b>	room with <b>120 m<sup>2</sup></b> of tiles +20 sanitary fixtures in <b>20 minutes</b>
Water consumption:	30 litres	30 litres	14 litres	30 litres	70 litres	14 litres	70 litres
Chemical consumption:	500 grams	500 grams	250 grams	500 grams	1200 grams	250 grams	1200 grams
Defoamer consumption:	-	-	max 30 grams	max 30 grams	max 70 grams	-	-
Chemical dilution during foaming :	Pre-set around 4%	Pre-set around 4%	Pre-set around 4%	Pre-set around 4%	Pre-set around 4%	Pre-set around 4%	Pre-set around 4%
Cable length:	10 m	-	10 m	10 m	10m	10 m	15 m
Batteries:	-	2x12V - 44Ah	-	-	-	-	-
Batteries autonomy:	-	8 hours	-	-	-	-	-
Weight (machine body):	23 Kg	71 Kg	40 Kg	74 Kg	95 Kg	32 Kg	55 Kg
Weight (packaged machine):	26 Kg	83 Kg	58 Kg	100 Kg	120 Kg	42 Kg	70 Kg
Dimensions:	cm 38 x 60 x 78 (h)	cm 38 x 70 x 105 (h)	cm 38 x 70 x 86 (h)	cm 38 x 80 x 105 (h)	cm 50 x 89 x 115 (h)	cm 42 x 68 x 87 (h)	cm 60 x 87 x 98 (h)
Package dimensions:	cm 42 x 65 x 88 (h)	cm 48 x 74 x 126 (h)	cm 48 x 80 x 100 (h)	cm 60 x 95 x 121,5 (h)	cm 65 x 102 x 130 (h)	cm 48 x 74 x 55 (h)	cm 65 x 102 x 86 (h)
Spray hose/Vacuum hose length:	5/5 m	5/5 m	5/5 m	10/7,5 m	10/7,5 m	10m	10m
Standard colors:	Blue	Blue	Blue	Blue	Blue	Black	Black
Accessories for injection-extraction cleaning:	Optional	NO	Optional	Optional	Optional	NO	NO
Tank construction:	High density polyethylene					-	

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