

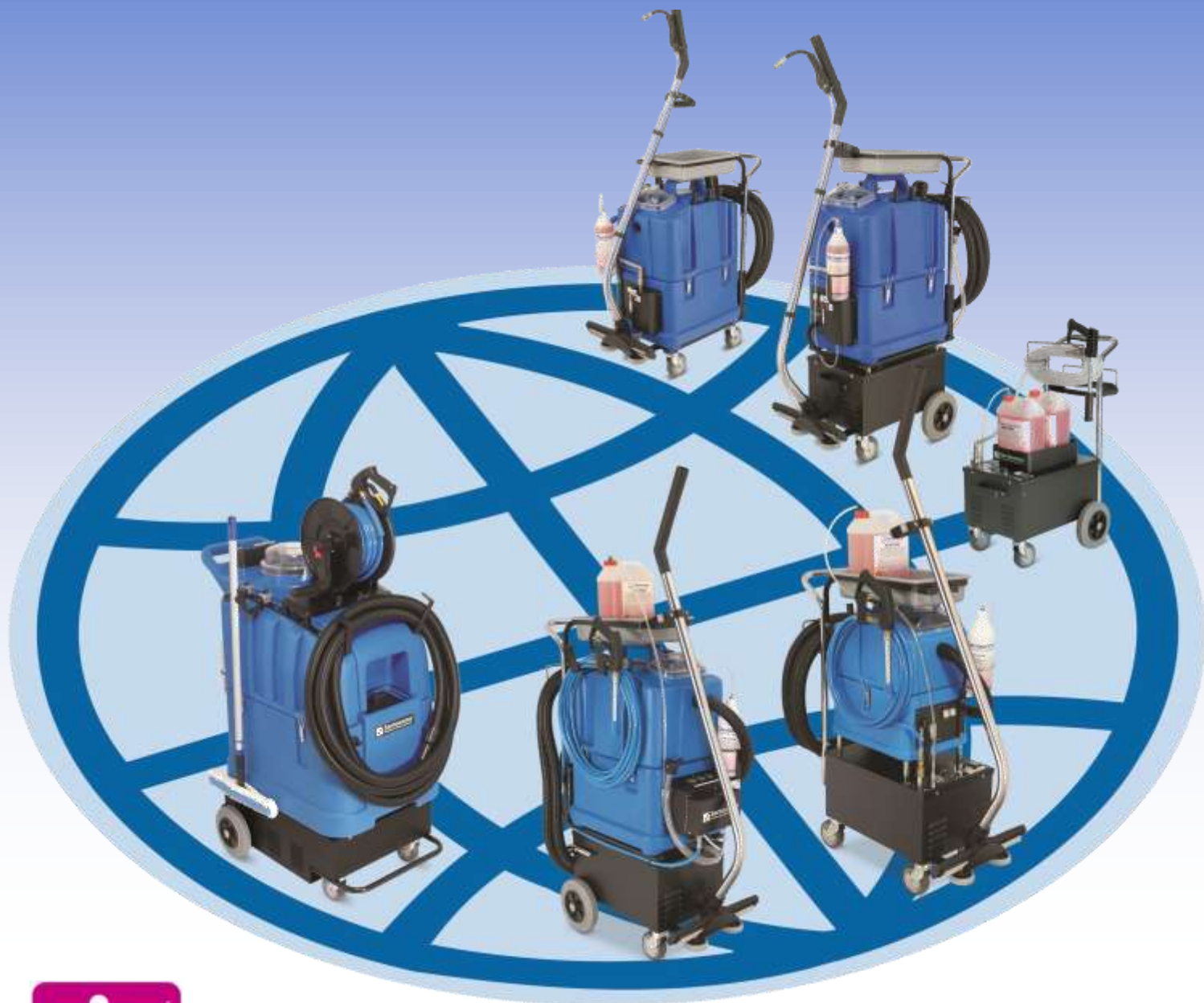


# Santoemma

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 type and 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 fulfilment 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.

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

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

## Powertec system: the solution for maintenance 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 for maintenance cleaning and sanitizing of small and medium-size restrooms.

Two models are available: Powertec30 (cable powered) and Powertec30-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 a stronger action on the dirt and bacteria and it is therefore ideal for those places which need an heavy duty action.

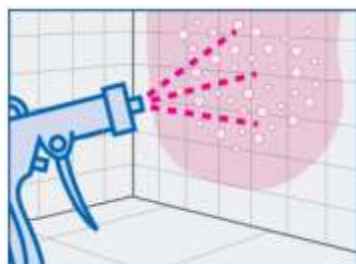
# Santoemma Powertec system



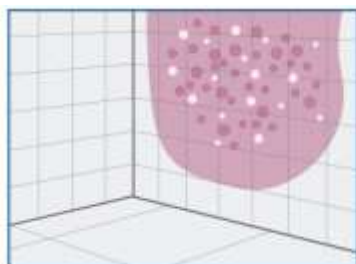
**Powertec30** is a machine for cleaning and sanitizing small and middle-sized restrooms, in areas open to public. It combines spraying of chemical solution, rinsing and vacuuming. With Powertec30 restrooms can be completely cleaned, sanitized and left perfumed and dry in a short time, making the cleaning operations more effective and pleasant as well.

Using the machine is immediate and does not require any training for the operator. Small and light, Powertec30 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.

Powertec30 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.



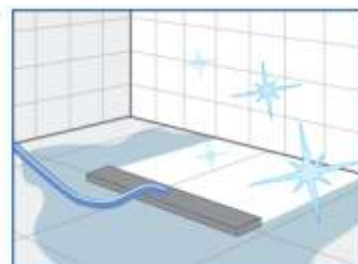
1 Spraying



2 Chemical action



3 Rinsing



4 Vacuuming

**Powertec30-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

Santoemma patented Foamtec system is the best solution to the problem of cleaning and sanitizing even very dirty restrooms. Three different models have been developed, with different capacities and autonomies, in order to adapt to places of different sizes.



DEMO  
VIDEO



**Foamtec15**



**Foamtec30**



**Foamtec70**

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



INNOVATION  
AWARD WINNER



**1 Foaming**



**2 Chemical action**



**3 Rinsing**



**4 Vacuuming**

# The 10 advantages of Powertec and Foamtec systems

1. **Better cleaning and sanitising result:** chemical does not immediately fall onto the floor, but stays for about 3 minutes on the surfaces where it has been sprayed. This ensures both cleaning and sanitizing actions.
2. **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.
3. **Reduced labour for the worker:** manual work is reduced to a minimum since the dirt is removed by the chemical action and the mechanical rinsing action.
4. This system, more comfortable and hygienic, gives a **greater fulfilment** to the worker.
5. **Saving of time:** while the chemical 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.
6. **Detergent saving:** the chemical is used without waste because it does not immediately fall onto the floor.
7. **Reduced power consumption:** the machines require little electrical power and therefore they can be used in any place.
8. **Reduced water consumption:** both systems, rinsing at low pressure, require 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.
9. **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.
10. The machines can be used also in **places with no drains** because they can completely vacuum the water remaining on the floor after rinsing.

## IdroFoamRinse: cleaning areas with no need for vacuuming



IdroFoamRinse200

**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 and sanitize 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.**



IdroFoamRinse400

# 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 limescale from showers, sanitary fixtures and other surfaces.

# Accessories

All the machines are provided with the necessary accessories allowing to spray, 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, it is possible to wipe glass and mirror surfaces with a manual wiper supplied.



# Application fields

The machines of Santoemma RESTROOM Cleaning and Sanitizing Program can be conveniently used in in any public restroom. For each area, the best solution can be chosen according to the restroom type and size and the frequency of operation with the machine. The following table shows the possible solutions for each area:

|                                | Powertec30 | Powertec30<br>Battery | Foamtec<br>15 | Foamtec<br>30 | Foamtec<br>70 | IdroFoam<br>Rinse200 | IdroFoam<br>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, gyms          | 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>Powertec30</b>                                                                      | <b>Powertec30 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                                                                              | -                                                                                    | -                                                                                      |
| 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>40 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 (5 g/m <sup>2</sup> )                                                        | 500 grams (5 g/m <sup>2</sup> )                                                        | 250 grams (10 g/m <sup>2</sup> )                                                     | 500 grams (10 g/m <sup>2</sup> )                                                      | 1200 grams (10 g/m <sup>2</sup> )                                                      | 250 grams (10 g/m <sup>2</sup> )                                                     | 1200 grams (10 g/m <sup>2</sup> )                                                      |
| 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%                                                                      |
| Continuous filling system                                                                  | YES                                                                                    | YES                                                                                    | YES                                                                                  | YES                                                                                   | YES                                                                                    | YES                                                                                  | YES                                                                                    |
| Vacuum motor:<br>Power:<br>Maximum waterlift:<br>Maximum air-flow:                         | 2 stages<br>1000 W<br>2200 mm H <sub>2</sub> O<br>50 l/sec.                            | 2 stages<br>500 W<br>1300 mm H <sub>2</sub> O<br>35 l/sec.                             | 2 stages<br>1000 W<br>2200 mm H <sub>2</sub> O<br>50 l/sec.                          | 2 stages<br>1000 W<br>2200 mm H <sub>2</sub> O<br>50 l/sec.                           | 2x2 stages<br>1000 W<br>2200 mm H <sub>2</sub> O<br>100 l/sec.                         | -                                                                                    | -                                                                                      |
| Pump with bypass:<br>Power:<br>Maximum pressure:<br>Rinse pressure:<br>Maximum water-flow: | membrane, int. by-pass<br>90 W<br>9 bar<br>3 bar<br>4 l/min                            | membrane, int. by-pass<br>90 W<br>9 bar<br>4 bar<br>3,5 l/min                          | membrane, int. by-pass<br>90 W<br>9 bar<br>3 bar<br>4 l/min                          | membrane, int. by-pass<br>90 W<br>9 bar<br>3 bar<br>4 l/min                           | piston type, adj. pressure<br>370 W<br>30 bar<br>16 bar<br>5 l/min                     | membrane, int. by-pass<br>90 W<br>9 bar<br>4 bar<br>4,5 l/min                        | piston type, adj. pressure<br>370 W<br>30 bar<br>18 bar<br>5,5 l/min                   |
| Compressor:                                                                                | -                                                                                      | -                                                                                      | 350 W                                                                                | 350W                                                                                  | 350W                                                                                   | 350W                                                                                 | 350W                                                                                   |
| Cable length:                                                                              | 10 m                                                                                   | -                                                                                      | 10 m                                                                                 | 10 m                                                                                  | 10 m                                                                                   | 10 m                                                                                 | 10 m                                                                                   |
| Batteries:                                                                                 | -                                                                                      | 2x12V 38Ah                                                                             | -                                                                                    | -                                                                                     | -                                                                                      | -                                                                                    | -                                                                                      |
| Battery autonomy:                                                                          | -                                                                                      | 8 hours                                                                                | -                                                                                    | -                                                                                     | -                                                                                      | -                                                                                    | -                                                                                      |
| Weight (machine body):                                                                     | 35,1 Kg                                                                                | 72 Kg                                                                                  | 55,3 Kg                                                                              | 75,6 Kg                                                                               | 93,8 Kg                                                                                | 37,9 Kg                                                                              | 59,4 Kg                                                                                |
| Weight (packaged machine):                                                                 | 47,3 Kg                                                                                | 97,8 Kg                                                                                | 75,9 Kg                                                                              | 94,7 Kg                                                                               | 120 Kg                                                                                 | 58,6 Kg                                                                              | 82,2 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 54 x 90 x 115 (h)                                                                   | cm 54 x 90 x 133 (h)                                                                   | cm 54 x 90 x 115 (h)                                                                 | cm 54 x 90 x 133 (h)                                                                  | cm 65 x 102 x 130 (h)                                                                  | cm 54 x 90 x 83 (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                                                                              | 15/7,5 m                                                                               | 10 m                                                                                 | 15 m                                                                                   |
| 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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**Santoemma srl**

Via Piave, 22/C - 20016 PERO (Milano) – Italy

Tel. +39.02.3391 2487 Fax +39.02.3391 2538

www.santoemma.com E-mail: info@santoemma.com