



## Hygiene everywhere, hygiene for everybody

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### TECHNICAL PRESENTATION

V.A.R.M. s.r.l. located in Civita Castellana (VT) Italy, has concluded two innovative projects patented in 141 nations to eliminate the infections in the public and private hospitals and where hygiene is needed.

The infections increase every year and developed also in rest homes, districts, private and public practices, veterinary practices, hotels, fitness centres etc., schools, cruises ships, caravans and motor homes. It is impossible to quantifiable the infections because it doesn't exist relative publications.

In Italy there are about 700.000 hospital infections per year and the mortality is about 7.000/10.000 deaths per year and the costs amounts to € 4.238,037 per year. The average incidence of infections is 7%- 10% (data published by the Bocconi University in 2000). In Germany mortality due to nosocomial infections reaches 30.000 deaths per year (European Chronicles, blitz 05/15/2011).

In the United States the incidence of nosocomial infection reaches the 105 in the hospitals every year (Source: centre for infection diseases and prevention, March 2009).

Varm s.r.l. has realized two innovative patents to remove the infections and the costs incurred by private and public Health.

### FIRST PATENT:

Portable washbasins studied for the elimination of hands infection's transmission and gives safety to the assisted patients, medics and nurses.. These articles are equipped with an electronic system and they are supplied with 35 litres of water and 5 litres of disinfectant. They are provided with a filter to kill viruses, bacteria, colloids and **Legionella**.

### SECOND PATENT:

#### **Disinfection UV system of a complete bathroom (water, bidet, shower, washbasin, bath tub)**

It was studied to eliminate viruses and bacteria coming from the sewer pipe to the drainage pipes of washbasin, , bidet, bath tub and shower. The system prevents the risk of transmission of the following infections caused by viruses and bacteria: *legionella pneumophila*, *Salmonella*, *Pseudomonas aeruginosa*, *staphylococcus aureus* and *Escherina coli*. This patent is certified by **ARPA (Environment Protection Agency)**, by **accredited laboratory ACCREDIA** and by an important experimentation of **Bambin Gesù Hospital in Rome**.

### THIRD PATENT:

Disinfection system with application of an UV germicidal lamp on the sewage pipe of Squat toilet and Urinals avoiding the return of viruses and bacteria from the sewer pipe.

### FOURTH PATENT:

Disinfection system with application of an UV germicidal lamp on the drain well of the bathroom and on the **toilet seat cover for eliminating the viruses and bacteria from the surface of the toilet**.

This last patent realized by Varm is a universal toilet seat cover system for eliminating the coming up of viruses and bacteria from the sanitary ware of all bathrooms. The universal system can be applied with extreme ease on every kind of toilet for eliminating up to 99% the return of viruses and bacteria that coming up from the sewerage pipe as *legionella pneumophila*, *Salmonella*, *Pseudomonas aeruginosa*, *staphylococcus aureus* and *Escherina coli*.



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The installation and operation is very simple, the UV lamp thanks to the sensor it turned on when the toilet seat cover is closed while it is up the UV lamp is turned off. It guarantee the maximum level of hygiene. The UV lamp last for 9000 Hours and it's powered at low voltage ( 12 V ).

### **Advantages of disinfection systems:**

- Qualifies healthcare structures
- Reduces hospital infection costs
- Reduces insurance costs
- Reduces risks and legal arguments
- Reduces working time and risk of healthcare staff
- Avoid the coming up of viruses and bacteria to the sanitary fittings
- Easy maintenance costs
- Reduce the risk of infection spread around
- Reduces infections means to reduce mortality (7000 deaths per years in Italy - statistical data of Italian Ministry of Health and Cergas University of Bocconi, Milan published 2000)
- Reduces infections means to reduce of 8% - 10% the occupations of beds in hospital and the working time.

Our patents are further ahead the criteria fixed by the world guide lines, giving security to patients and to health staff.

The patents have obtained important certifications, (as per the enclosed file) by **FDA**, BIOSAN certification (laboratory credit with ACCREDIA), ASL in Rome, USL in Umbria, and an important scientific experimentation of 1 year carried out at pediatric hospital "Bambino Gesù" in Rome, the most advanced hospital in the fight against infections.

I remain at Your disposal for any further information necessary. You may contact us at:  
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Feeling positive of Your kind interest, we will contact You shortly by telephone,  
Best regards

Varm srl  
Gastone Vitali – The Chairman

**N.B. You may see our complete range of products on our website [www.varmforhygiene.com](http://www.varmforhygiene.com)**

**System patented in 145 Nations**