



STEAM BIOCLEANING – DAILY USAGE

ANALYSIS OF ECONOMIC IMPACT

This analysis has been carried out by the Ussel hospital in connection with the CCLIN SUDOUEST and presented during the 2011 congress of the official Association for managing Hygiene in hospitals in France (SF2H) LYON June 2011

Method :

- Comparison between classical method using chemical and steam Sanivap method
- Location of study :
 - Classic method : medicine 1 patient rooms
 - Steam method : medicine 2 patient rooms
- Duration : 1 month for each study
- Steam equipment : SANIVAP SV2900KIT
- Daily computation of :
 - Used chemicals
 - Weight of utilized microfiber clothes
 - Quantity of water used
 - Number of hours of utilisation of steam equipment
 - Surfaces treated
- Computation of the following costs :
 - Chemical used
 - Laundry
 - Electricity and water consumption

Objective of the analysis :

- Comparison of the cost per square meter of treated surface for the 2 methods

Results :

- The total cost per square meter is the following:
 - **Traditional method: 0.029 € TTC / m²**
 - **Steam method: 0.013 € TTC / m²**



Notes :

- The operator time is the same for the 2 methods,
- The time spent for ordering, receiving, distributing the chemical products is not taken into account,
- A very limited utilization of chemicals has been maintain for a few specific tasks,

<u>Costs € incl vat</u>	<u>Classical method</u>	<u>Steam method</u>
Chemical products	0.0009 €	0.00005 €
Gloves	0.0010 €	0.0004 €
Laundry microfiber clothes	0.027 €	0.01 €
Water	0.00012 €	0.00004 €
Electricity	0	0.0025 €
<u>TOTAL / m²</u>	<u>0.029 €</u>	<u>0.013 €</u>

Economic impact of steam biocleaning vs chemical method

The comparative analysis of the costs of the 2 methods for a treated surface of 500 m² shows the following results :

- Chemical method → 5292 € incl vat per year
- Steam method → 2372 € incl vat per year

⇒ **Yearly savings generated by the steam method: 2920 € incl vat per year**

The return on investment is less than 1.5 year