

AGRICONS
Biological chemical laboratory

A STUDY OF THE ANTI-BACTERIAL EFFECT
OF THE APPLIANCE LIKE
"GAISER 4000"

Used according to the instruction provided by the manufacturer.
(Company COMMITAL-SAMI S.p.A.)

INTRODUCTION:

With the word hygiene we intend all the rules taken in order to preserve or improve the human health status.

Nowadays everybody knows the hygiene importance, infact during several and wide treatments it has been remarked the attention on the necessity of a propper enviromental hygiene. Especially on the production plants and tools that are in direct contact with food products during the working process.

METHOD

The purpose of this study is to verify the anti-bacterial efficacy on the surfaces (Teflon and steel) that are in contact with the foods after being treated with the appliance "GAISER 4000" produced by COMMITAL-SAMI S.p.A.

The appliance GAISER 4000 has been used according to the instruction provided by the manufacturer.

The tested surface has been submitted to the bacteriological analysis before and after the exposure of 5 seconds of steam flow at the temperature of 150°C produced by the above appliance.

The resulted value are as per the enclosed chart.

CHART 1


	Total bacterial on 100cm2
Contaminated Teflon surface	3.360 
After 5 seconds treatment with steam flow produced by GAISER	10

CHART 2


	Total entero-bacterials on 100cm2
Contaminated Teflon surface	792 
After 5 seconds treatment with steam flow produced by GAISER	0

CHART 3



	Total bacteria on 100cm2
Contaminated steel surface	2.328 
After 5 seconds treatment with steam flow produced by GAISER	2

CHART 4

	Total entero-bacterials on 100cm2
Contaminated steel surface	960 
After 5 seconds treatment with steam flow produced by GAISER	0

RESULTS

The results has per the chart 1 and 2 for the Teflon surface and 3 and 4 for the steel surface remark the strong contamination status at the starting point of the test. It is considerable the reduction of the bacterials after the treatment with GAISER 4000.

CONCLUSION

The study effected has revealed that the microbial reduction obtained on the examined surfaces through the usage of "GAISER 4000" is equivalent to a good level of disinfections.

The present report has been filled making reference to the technical test and Microbiological research done by the UN.A.LAB Laboratories of Analysis (Unione Adriatica Laboratori di Vicenza) on the sampling effected on 04/06/02.