Indoor Air Quality Using a BioZone Scientific Air Purifier

Romanian Ministry of Health
National Institute of Public Health- Romania
Regional Center for Public Health- Bucharest
Department of Environmental Health- Environmental and Food Chemistry and Microbiology Laboratory

At the request of SC Biozone Air Care Ltd. headquartered in Bucharest, Romania, we tested the BioZone Scientific 90's purification and germicidal effectiveness against airborne microorganisms. The testing was conducted from April 6th- April 12th, 2010 in the Department of Environmental Health- Environmental and Food Chemistry and Microbiology Laboratory (Mediul Laborator de Chimia si Microbiologia Mediului si Alimentului), of the Regional Center for Public Health- Bucharest (Centrul Regional de Sanatate Public Bucuresti), under the authority of the Romanian National Institute of Public Health (Institutul National de Sanatate Publica) and the Romanian Ministry of Health (Ministerul Sanatatii).

Test Methodology

A BioZone Scientific 90 was installed in a room (the Medical Library at the National Institute of Public Health). Regular microbiological measurements were made of the indoor air quality. To measure the Microbiological load of the indoor air a harvest-type Microbiological Air Quality Sampler (M.A.Q.S.) manufactured by Oxoid (Oxoid Ltd, Cambridge UK) was used.

Test Results of Indoor Air Quality

Unit #	Conditions	Bacterial load NTG/m^3 of air		
		T=0	T=1	T=2
1	w/o BioZone Scientific 90	155	-	-
2	w/BioZone Scientific 90	-	55	44

NTG/m^3 of air = total number of bacterial units per m^3 of air

Interpretation of Results

The data show a reduction in the number of microorganisms in the air (NTG/m^3 of air) in the test area with the BioZone Scientific 90 I operation as compared to the initial reading at T=0.

Analytic Report

Microbiological quality of air in a room treated with a BioZone Scientific Air Purifier model 90 device ("BioZone Scientific 90"). This represents a 71.6% decrease (T=0:155, T=2:44) in the airborne bacteria count over the 2 hour period.

Report Issued on August 11, 2010 by: Director Dr. Florin Popovici, Coordinator LCCMA Pr.I. Elena Juganaru, Biologist Pr. Gabriel Balan

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