

Test 4: Evaluation of the effect of Light Progress UV-C air Purification devices on the microbial and fungi load present in the air

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TESTS PARAMETERS:

Name of product tested: UV FAN-95HP

Period of analysis: April 2010

Microorganisms Tested:

- Mesophyll Load
- Psicrofila Load

Test Method:

The experimental protocol provides active sampling of 1 m³ air next to the exit slot of the air purifier with both UV lamps ON and OFF. Tests have been conducted in a University classroom where administration activity and lessons took place.

Results are expressed as Unit Forming Colonies for Air Cubic Meter (UFC/m³).

Experiment Goals:

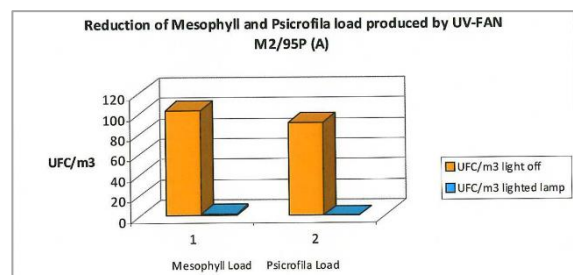
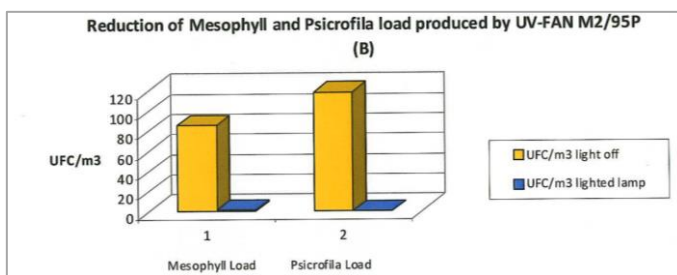
Indoor pollution concerns confined rooms such as workplaces, schools, hospitals, transportation, etc. where we spend most of our time. International scientific community has been investigating for years how public health can be affected by poor Indoor Air Quality environments.

This study regards the purifying effect of UVGI technology provided by LIGHT PROGRESS in spaces where a normal working and social activity is held.

The goal is to prove that there is a certain benefit in using UV air purifier, especially in crowded and closed areas, due to the decreasing of Microbial and Fungi load in air.

TEST RESULTS:

LIGHT PROGRESS device succeeded in reducing almost completely the total load of both Mesophyll and Psicrofila microorganisms showing almost no UFC/m³ of aspirated air when lamps were ON. Chart below shows results.



reduction of Mesophyll Load (CMT at 36°C)

LAMP TYPE	UFC/ m ³ AIR ENTRANCE	UFC/ m ³ AIR EXIT	REDUCTION %
(A) UV - FAN M2/95P	103	2	>98,00
(B) UV - FAN M2/95P	86	<1	>99,99

reduction of Psicrofila Load (CMT at 22°C)

LAMP TYPE	UFC/ m ³ AIR ENTRANCE	UFC/ m ³ AIR EXIT	REDUCTION %
(A) UV - FAN M2/95P	91	<1	>99,99
(B) UV - FAN M2/95P	119	1	>99,00