



Test-Report

AIRFREE EFFICIENCY TEST IN REDUCING INDOOR MICROBIAL POLLUTION (FUNGI AND BACTERIA) AT "BANCO ESPIRITO SANTO" LISBON.

AIM

The aim of the present work was the assessment of the **AIRFREE RL60** efficiency in reducing airborne fungi and bacteria in 2 rooms at a Espirito Santo Bank branch in Lisbon characterized as being partially closed, before and after the use during 32 days of **AIRFREE RL60**.

METHODOLOGY

Test conditions

In those 2 rooms located below street level, 5 units were installed. The first one at the meeting room with 25 m³ and 4 units at the so called working office with 162.5 m³. The test was performed during 32 days. **AIRFREE RL60** units were installed on April 3rd. First set of samples obtained on March 31st and April 3rd prior to the installation of **AIRFREE RL60** devices, represent the average airborne microbial charge of both rooms. Petri dishes were exposed for 1 hour to the room ambience



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Ministério da Economia
INSTITUTO NACIONAL DE ENGENHARIA E TECNOLOGIA INDUSTRIAL
INSTITUTO DE BIOTECNOLOGIA, QUÍMICA FINA E TECNOLOGIAS ALIMENTARES
Laboratório de Microbiologia Industrial

Avenida dos Lanhóis à Estrada do Paço do Lumiar 1699 LISBOA CODEX Telef: 716 51 41 Telex: 42 496 INETIP Fax: 716 09 01

Culture media used for airborne microbiologic count.

Fungi: Malt Extract Agar (MEA) Difco
Bacteria: Nutrient Agar (NA) Oxoid.

Conditions of incubation:

Fungi: 25°C 5 to 7 days
Bacteria: 30°C 3 days

All results for fungi and bacteria were expressed in c.f.u (colony forming units) per dish. Each result represents the arithmetic average obtained in 5 different dishes with same means of culture within the same period.

RESULTS

Results for fungi and bacteria for both rooms are shown in the charts of the **Figures 1 and 2.**

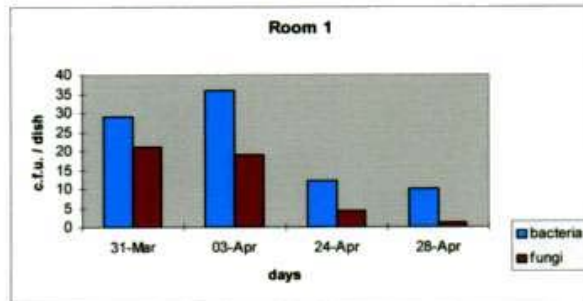


FIGURE 1. – Airfree effect in reducing airborne microbial contamination in the meeting room. Units plugged in on April 3rd. Each point represents 5 reading average both for fungi and bacteria.

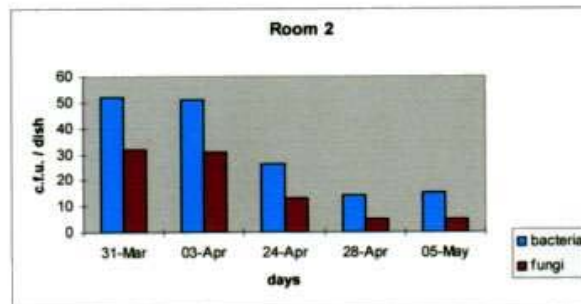


FIGURE 2. – Airfree effect in the larger room. Units plugged in on April 3rd. Each point represents 5 reading average both for fungi and bacteria.



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Charts 1 and 2 show how **AIRFREE RL 60** reduced fungi and bacteria
in rooms 1 and 2.

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Head of Mycology Section of LMI

Pablo Tavares Pereira

Head of LMI

José Carlos Roseiro

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