

## INETI - Test at a Portuguese Bank

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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 m<sup>3</sup> and 4 units at the so called working office with 162.5 m<sup>3</sup>. The test was performed during 32 days. **AIRFREE RL60** units were installed on April 3<sup>rd</sup>. First set of samples obtained on March 31<sup>st</sup> and April 3<sup>rd</sup> 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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**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**

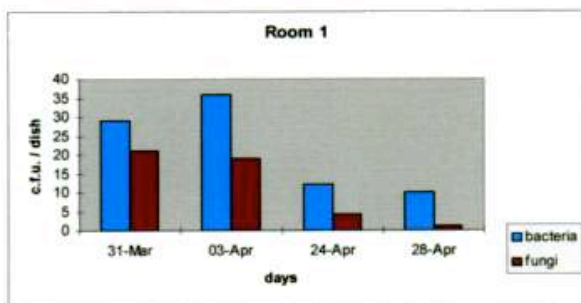
Results for fungi and bacteria for both rooms are shown in the charts of the **Figures 1 and 2.**



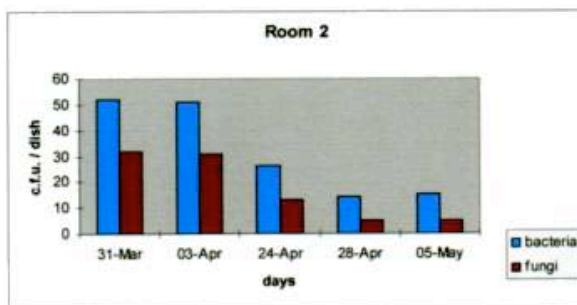
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**FIGURE 1.** – Airfree effect in reducing airborne microbial contamination in the meeting room. Units plugged in on April 3<sup>rd</sup>. Each point represents 5 reading average both for fungi and bacteria.



**FIGURE 2.** – Airfree effect in the larger room. Units plugged in on April 3<sup>rd</sup>. 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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