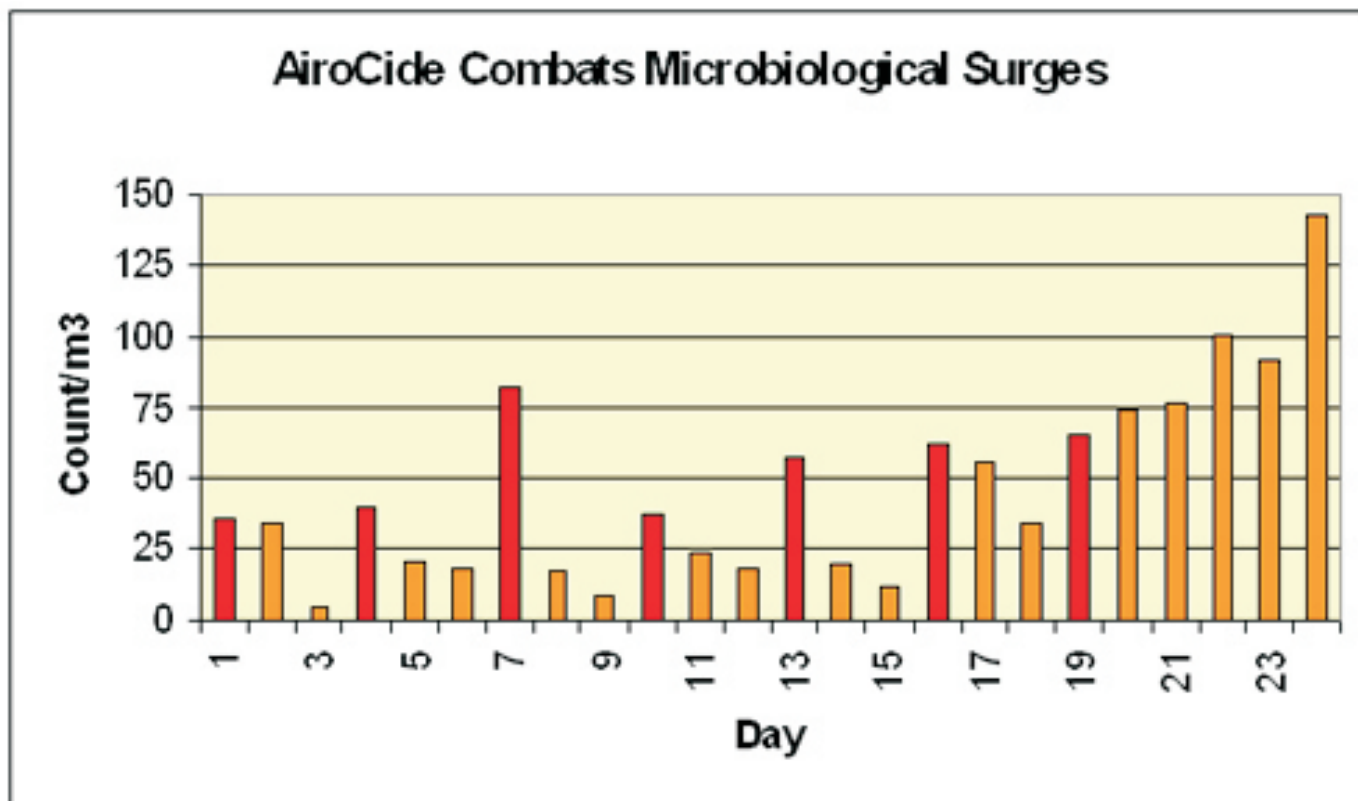


Microbial challenge response test (September 2004)

In a 3rd trial, 2 AiroCide™ ACS-50 units were placed in a large animal holding room. The effect of the AiroCide™ can be seen by comparing how quickly the raised counts due to increased traffic ('microbial challenges') are removed while the AiroCide™ is working, with the persistent high counts seen after the AiroCide™ was turned off in the last 2 weeks of the study. These obvious air-cleansing effects are seen despite the fact that the rooms were supplied with filtered air and had multiple air changes per hour. The AiroCide™ was seen to complement HEPA and HVAC systems. The graphs below show the TVC (total viable count) readings taken throughout the study.



The results confirm the action of the AiroCide™. It can be seen that the peaks seen in the total counts when there was increased traffic within the test area were rapidly reduced by the action of the AiroCide™ – there was a *microbial challenge* and the AiroCide™ countered it.

It can also be seen that when the AiroCide™ was switched off it could not counter the challenge and the increased numbers of bacteria in the air caused by the increased traffic, persisted much longer than when the AiroCide™ was operational, increasing the chances of animals and staff being affected.