

Life of humidifier elements increased – acid cleaning and disposal eliminated

Britannia Airways, based at London Luton Airport, has to maintain a permanent constant humidity level in its computer rooms and hangars in order to eliminate the build-up of static electricity. The efficiency of the humidifiers supplied by Vapac and J.S. Humidifiers Ltd was being severely undermined by the continual formation of heavy scale.

The humidifiers required descaling within one month of installation and the deposit was so hard that only acid cleansing was effective. This involved a twenty-four hour operation and the careful disposal of acid waste. The progressive damage to the metal heating elements reduced their effective life to only three months.

The use of *HydroFLOW*'s unique system of scale prevention was recommended. On a trial basis, a *HydroFLOW* unit was installed on a Vapac humidifier in the Britannia Operations Room. In two months' testing an amount of scale still accumulated on the element and on the bottle's



base but this could be knocked off without the need of acid treatment.

The *HydroFLOW* system is now in general use by Britannia at London Luton Airport. Monthly maintenance takes two hours instead of twenty-four, no acid disposal is required and the life of the elements has been greatly extended. Paul Dunn, Support Services Supervisor of Britannia Airways, is delighted. He says, "Cleaning the bottles used to be regarded as a punishment detail. Now it is a pleasure".

It is also noticeable that the amount of scale forming in the humidifiers is still

reducing, implying that the heavy deposits in the trial bottle were partly the result of descaling existing deposits in the whole system. The whole system was therefore improved and the life of the elements was greatly extended. (Full report available on request.)

Installation of the *HydroFLOW* system is a simple operation. The compact unit is strapped onto the cold water inlet pipe and plugged into the mains electricity. Randomly varying electric fields are induced into the water which prevent the deposition of encrusting limescale. Hydroflow's system is maintenance free, requiring no plumbing or chemicals.

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CASE STUDY