



SAN-AIR_{tm} CASE STUDY

HIGH HUMIDITY ENVIRONMENT HOSPITAL UNIT

A Hospital Unit in Queensland, Australia, is located in an area that can experience almost 100% humidity in the environment at certain times of the year. This leads to major development of mould on all indoor surfaces, including the air conditioning ducting.

After taking microbial swab readings, SAN-AIR_{tm} was introduced in the Plant Room. The result was a steady state in Microbial readings, measured over a 4 month period. The expected mould reappearance has not happened and the coil fins are looking clean.

Current evidence is that whilst the dosage had to increase due to the high velocity of the air handler, the use of SAN-AIR_{tm} is able to reduce the impact of high humidity on the surfaces of the air conditioning.

INTRODUCTION



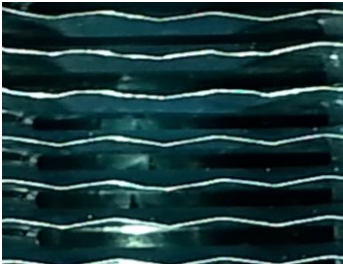

This hospital unit experiences recurring mould infestation requiring expensive remediation on a regular basis. To date remediation carried out has no longevity. The air conditioner in this hospital is used in a manner which allows it to dehumidify its input air. The Hospital was looking for alternative solutions to its current remediation plan and agreed to test the SAN-AIR_{tm} product.

A microbial contamination study was carried out. Due to high temperature of supply air, SAN-AIR_{tm} was replaced every 3 weeks.

As standard practice, a background reading (initial) was taken before introducing SAN-AIR_{tm} into the system. A return visit was organised 4 months later. The humidity range was between 60% to 74% during the 4 months and temperature ranging between 29-36 degrees.

Results

Hospital Building – no separate dehumidifier fitted

| Location | 15th December 2014 |
|--|---|
| <p>Conditioner Coil to Hospital</p>  <p>Conditioner coil showing accumulation of dirt/ growth medium</p> | <p>>300 mould/square cm</p>  |
| <p>SAN-AIR installed in the Fan Box of the major air handler then measured again</p> | |
| | <p>15th April 2014</p> |
|  <p>cleaner coil</p> |  <p><100 mould/square cm</p> |

CONCLUSION

The building experienced a reduction in mould count after SAN-AIR_{tm} was introduced. The Hospital showed nearly a 63% improvement (decrease in count). After 4 months the usual mould growth issues (which are expected without SAN-AIR_{tm} treatment) did not occur.

It is clear that SAN-AIR_{tm} can work in a high humidity environment.