



ENWA

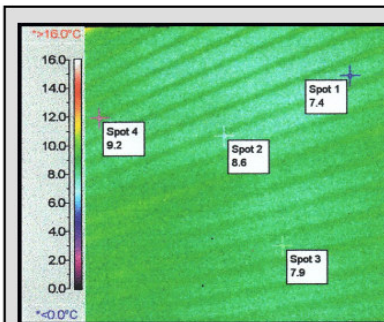
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Clear thinking helps IMAG keep their cool.

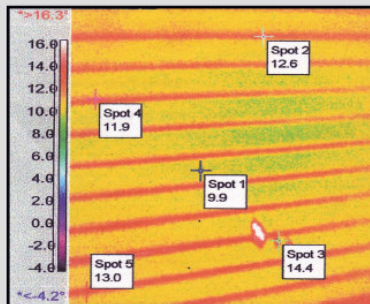


Project:

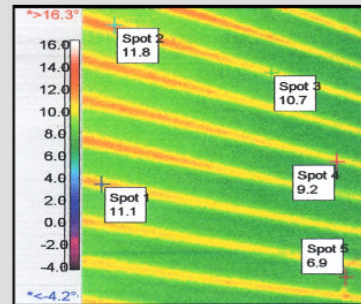
IMAG Optical Storage Ltd, Limerick, Ireland.
Compact disk manufacturer.
Production area air conditioning system.



Thermal inspection 1999: Air Handling Unit (AHU), No.7 Unit in good condition with uniform, low temperatures.



Thermal inspection 1999: AHU No.6
Poor temperature distribution with localised 'hotspots'.



Thermal inspection 2001: AHU No.6
"The temperature on these coils has improved significantly since the previous inspection".
Gerard Meade, M.E.T.S

"The cooling effect was very erratic in different work zones and the plant was unable to keep pace with higher ambient temperatures". Mike Jones, Facilities Supervisor.

Case history

- Soft, acidic make-up water combined with an ineffective chemical inhibition strategy, allowing significant corrosion to occur within the chilled water system.
- Deposition of corrosion by-products within the cooling coils, causing erratic temperature control of production areas.
- Inability of the cooling system to keep pace with higher ambient temperatures.
- Maximum pumping input required to maintain effective circulation.
- Concerns over long term structural integrity of air handling units.
- Initial attempts to clean the system using chemical dispersants had caused a sudden release of iron from internal surfaces, risking further contamination of the air handling units.

The EnwaMatic® approach

- EM 1260 installed, November, 2000.
- Continuous filtration and conditioning effectively removes excessive particulate and iron loading.
- Significant improvements in temperature profiles across cooling coils (*see above*).
- Effective temperature control restored in all areas.
- 50% reduction in pumping requirement, utilising only two of the four 18.5 kW pumps under full cooling load.
- Long term protection of air conditioning plant.
- Improved compatibility with environmental management system ISO 14001.

"We are now able to maintain desired temperatures in all areas and at all times of the year".

Mike Jones, Facilities Supervisor.

For a full version of this case study and any other information on the EnwaMatic® water treatment units please contact:

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