



**Fluid Dynamics**  
Hard water solutions since 1973

## Fluid Dynamics Focus on Water Treatment for Hospitals



Reducing the use of Energy and Chemicals in Hard Water





# Fluid Dynamics Installations in Hospitals

## Leicester Royal Infirmary, Leicester, U.K.



Installed in 1997 till present 20 x 1/2" Colloid-A-Tron units were installed in bed-pan washer systems to prevent the nozzles from blocking.



1/2" unit installed

Since installation of Colloid-A-Tron the bed pan washing system has not required any cleaning as scale build up no longer occurs.





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## Fluid Dynamics Installations in Hospitals

### Herzzentrum Kaiser-Wilhelm-Krankenhaus, Duisburg, Germany



Installed in 1985 till present 1 x 3'' Colloid-A-Tron was installed to protect the service water pipelines from scale. Since installation of Colloid-A-Tron the pipes have remained scale free preventing a loss in pressure and maintaining pump efficiency.





# Fluid Dynamics Installations in Hospitals

## National Paediatrics Hospital, Buenos Aires, Argentina

### The Problem

GARRAHAN Hospital, the largest pediatrics hospital in Argentina, suffered from serious scaling caused by hard water in the cooling system in a battery of vacuum pumps used in the operating theatres surgery section.

In total there are currently nine circuits, each with eighteen pumps.





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# Fluid Dynamics Installations in Hospitals

## National Paediatrics Hospital, Buenos Aires, Argentina

### The Solution

Each vacuum pump works with an oil seal. Water used to refrigerate the oil re-circulates and its temperature is controlled with a fan-coil system, but due to its hardness, intensive cleaning of the heat exchangers and fan coils was necessary once a week. In May 1994, Garrahan Hospital decided to install a ½" catalytic SCALETRON unit on each pump, to prevent the scale build- up.

The results and benefits were excellent and no further cleaning has been necessary. Indeed, since the installation of the SCALETRONS, maintenance to each pump is only of a preventative kind due to wear on mechanical parts.





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## Other Fluid Dynamics Hospital Installations

### **Cypress Medical Centre**

**Monterey, California**

**2" Colloid-A-Tron General System Protection**

### **Clinica Alcivar, Leading Maternity Hospital**

**Ecuador**

**1 x 3" Colloid-A-Tron, 1 x 1.5" Colloid-A-Tron**

**1 x 3/4;" Colloid-A-Tron**

### **Japan International Co-operation Hospital**

**Palestine**

**2 x 2" Colloid-A-Tron**

