

# Cooling Tower Parts and Spares

TC Engineering Services ([www.tcengineeringservices.co.uk](http://www.tcengineeringservices.co.uk))

## TC Engineering Services

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**We provide spare parts for all types of cooling tower.**

**This includes fill pack, drift eliminators, nozzles and air inlet louvres/screens.**

**We can also provide fan spares and repairs when needed.**

**We ensure that the best possible price is quoted, with discounts available for large orders.**

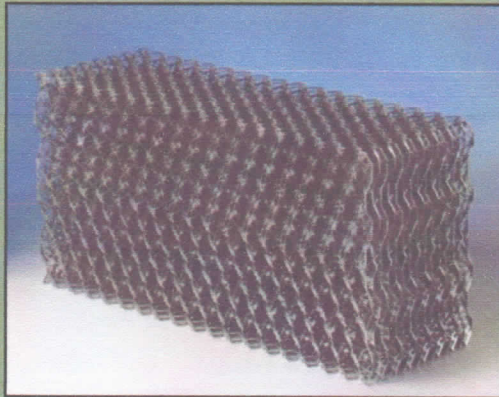
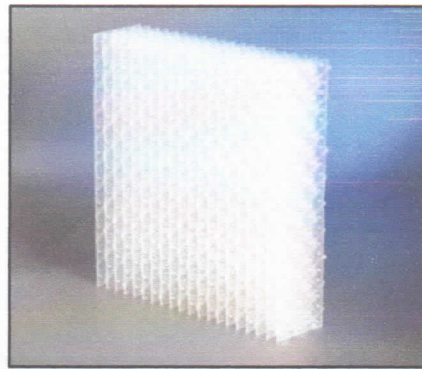
**NB. We also offer a full installation services for all the above components.**

**For more information contact:**

**Tim Cuthbert - 07771 984726**







## Product Bulletin- Low Fouling Heat Transfer Packing for Cooling Towers

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Many cooling towers are run using a dirty water supply or using water that contains process contaminants. This reduces the cooling efficiency of the cooling tower dramatically.

We can provide a low fouling heat transfer pack to suit these situations. Thus extending the performance lifetime.

The packing can be supplied as blocks to be cut on site to fit or supplied as correctly sized cut blocks for all types of cooling tower.

The special design means that the pack can be cleaned from all directions

Cooling calculations can be made to determine the best type of pack for your

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Before



After

## Cooling Tower Access Doors

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Due to the increasing concern about cleaning the packing inside cooling towers, there is a need to ensure that cooling towers have easy access for removing the internal components for cleaning.

TC Engineering Services supply and install all types of access hatches/doors into most types of cooling tower and/or water tanks.

These access hatches/doors are manufactured from either stainless steel or UPVC.

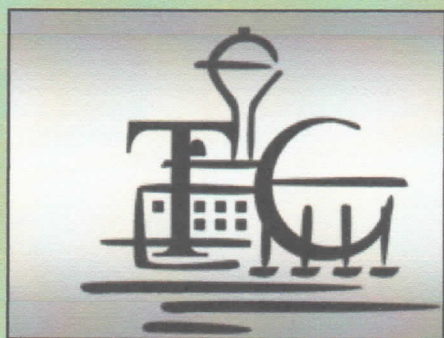
We will survey your application free of charge and quote the best type of access for your needs.

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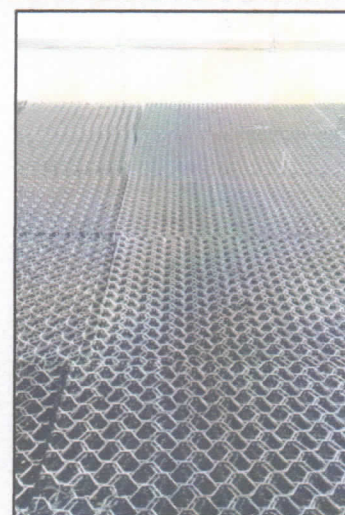




**BEFORE**  
**CLEAN**



**AFTER**  
**CLEAN**



## **Low Fouling Pack Facilitates Easier Pack Cleaning at Food Factory**

### **TC Engineering Services Case Study**

#### **TC Engineering Services**

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**A food factory in the Midlands were having major problems with grease and food depositing in the packing in their cooling tower. This was extremely difficult to remove during a clean.**

**TC Engineering Services recommended new Low-Fouling packing that could be cleaned easier when removed.**

**The results of this work showed that not only did the pack have less deposition, it was much easier to clean due to its open design (i.e. it can be cleaned from all sides).**

**Client also perceived no drop in cooling performance**





Before



After



## Cooling Tower Access Platforms For ACOP L8 Compliance

### TC Engineering Services

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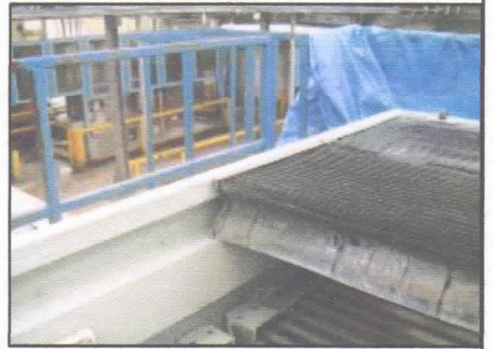
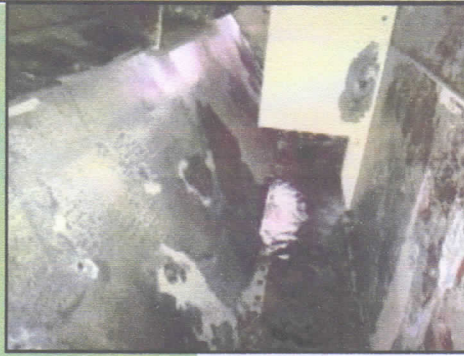
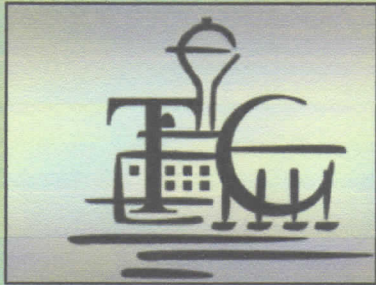
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Due to increased activity by the HSE regarding inspection of cooling towers, it has become more important to think about providing permanent access to the key areas of cooling towers (i.e. packing, basetank and eliminators).

TC Engineering Services can provide bespoke access to all parts of any type of cooling tower in order to comply with ACOP L8 guidelines







## Refurbishment of Cooling Towers External and Internal Repainting

### TC Engineering Services

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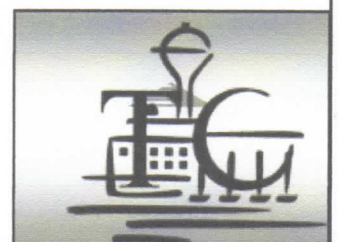
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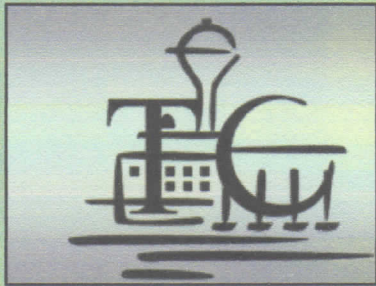
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**TC Engineering Services provide a full repainting service for all types of cooling tower, water storage tanks and even fountains and water features.**

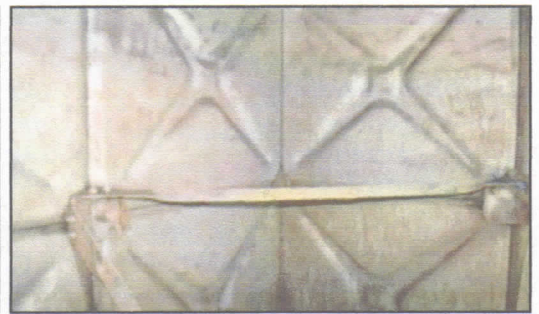
**Repainting of water system equipment both internally and externally can help significantly in the control of Legionella in accordance with the HSE ACOP L8 guidelines for Legionella control.**



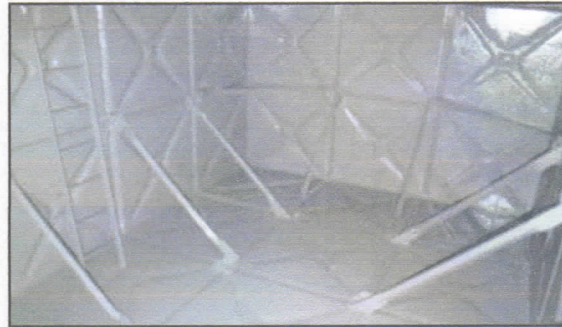




Before Surface Preparation



After Surface Preparation



Fully re-lined tank

## Tank Re-lining Service

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**Many Industrial Water Tanks are old and in need of repair and replacement. To manage the cost of a full replacement TC Engineering Services provide a full tank re-lining service.**

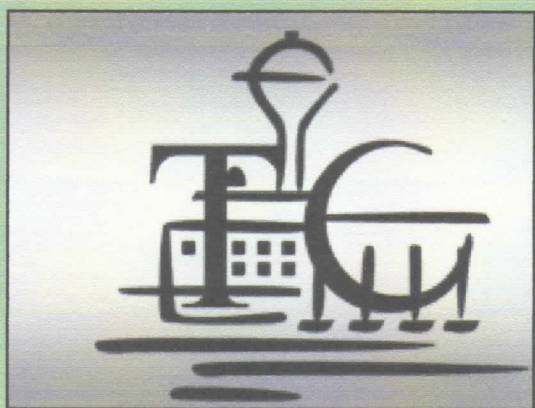
**Ideal for the following:-**

**Tanks in awkward areas and costly to replace due to their position**

**Non-compliant tanks that need to be upgraded GRP, Steel and Concrete Tanks**







**BEFORE**



**AFTER**



## **Stainless Steel Cooling Water System Tanks**

### **TC Engineering Services**

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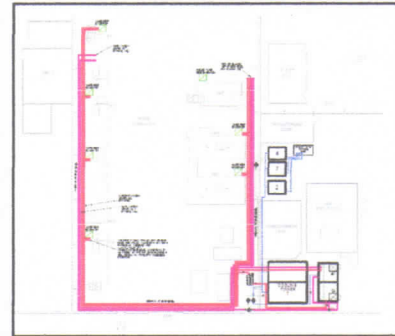
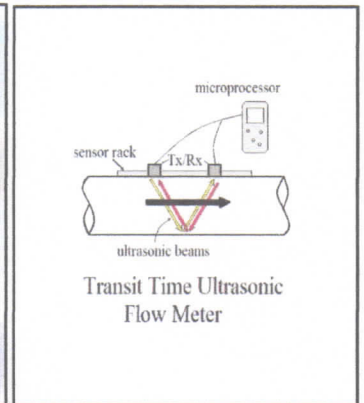
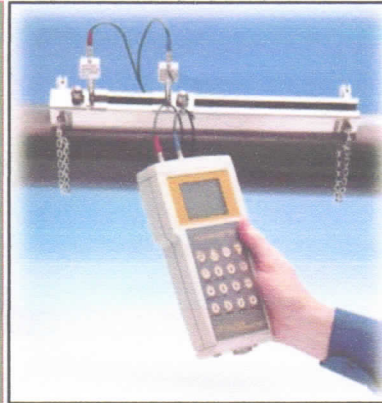
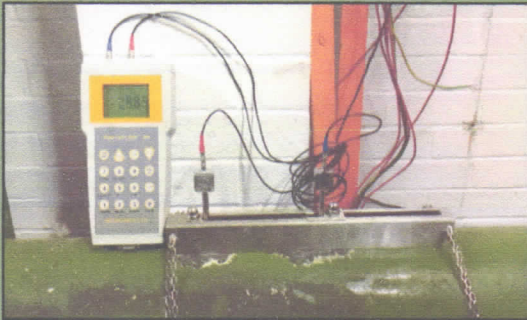
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**Due to the potential problems inherent with mild steel water tanks (i.e. Corrosion and high bacteria counts) and GRP tanks (recoating and brittleness) more companies are turning to Stainless Steel tanks due to their resistance to corrosion and also for their ease of keeping clean.**

**TC Engineering Services can provide bespoke stainless steel water tanks plus installation for most water systems.**







## TC Engineering Services Water System Flow Surveys

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Many sites with older water systems, have not retained the original pipework and flow details in their records.

This causes problems when trying to replace or upgrade existing systems, as without the records, how do you try to specify the correct sized equipment.

TC Engineering Services can carry out a full water circuit flow survey and along with its autocad drawing capability, we can provide a complete mapping out of a sites water system. This will include pipe dimensions, equipment positions and full water flow details.

This work can be essential in specifying the correct equipment, which can potentially save costly modifications later on due to sizing the equipment incorrectly.

For more information contact:

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## Energy Savings for Cooling Towers

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**With the ever increasing cost of energy, cooling towers can be a major contribution to energy bills.**

**Using variable speed drives on cooling tower fans, this cost can be reduced by up to 70%**

**Payback is typically 10-14 months for a full inverter control conversion**

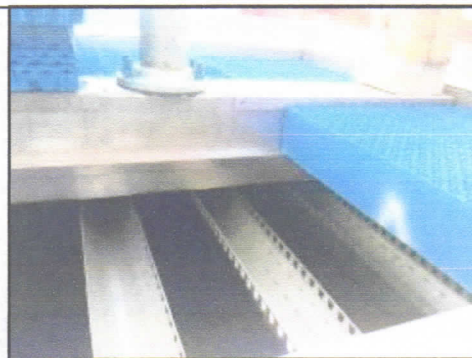
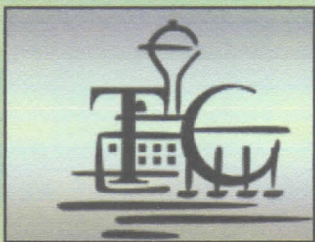
**Benefits: Up to 50-70% Energy Savings  
Lower wear and tear on bearings and motors.  
Reduced noise levels**

**For more information contact:**

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# ACOP L8 Compliant Cooling Towers

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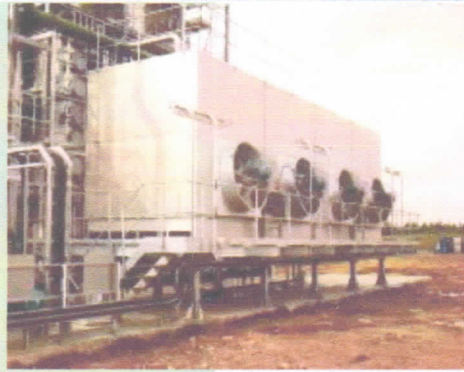
**In accordance with the HSE ACOP L8 guidelines for Legionella control, TC**

**Engineering Services supply a range of fully compliant cooling towers. The range includes forced draught and induced draught designs. All cooling towers are manufactured from either 304 stainless steel or 316L stainless steel.**

**We also design bespoke access platforms for all types of cooling tower and where needed, a full Turnkey M&E installation service can be offered.**







## ACOP L8 Compliant Cooling Towers Turnkey Installations

### TC Engineering Services

#### TC Engineering Services

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**In accordance with the HSE ACOP L8 guidelines for Legionella control, TC Engineering Services provide a fully compliant turnkey cooling installation service. Including full ACOP L8 compliant cooling towers, bespoke designed access platforms, full mechanical installation (including pipe-work), full electrical installation and where needed, full Civil works.**

