

DHD COOLING
REFURBISHMENT . MAINTENANCE . DESIGN . INSTALLATION

DHD Cooling

- Industry experts offering advice on legislation, industry standards and compliance
- Competitive solutions for end users to cut business costs, increase performance and reduce your carbon footprint
- Regulatory, efficiency and reliability assessments, reporting and recommendations
- Thermal performance and maintenance upgrades
- Turnkey project and engineering services
- Design and installation solutions
- Full service capabilities

Introduction to DHD Cooling and our Services

Who are we?

DHD Cooling was formed in 2013 by Gary Dicker and Mark Donoghue, a couple of enthusiastic cooling tower specialists with one main aim *"to become the go-to people to support customers in designing and maintaining their cooling systems"*.

What do we do?

We base everything we do on an analytical approach to problem solving, providing information in a clear, concise way so that our customers can make decisions that provide them with the greatest benefits to their plant or processes, and most importantly keep their systems operating at peak efficiency for as long as possible. We aim to provide products and services that not only prolong the life of cooling equipment but improve efficiency and performance.

Why do we do it?

Cooling systems aren't just that piece of forgotten plant at the back of your facility, they provide valuable cooling to the processes that you use to make your products. In many cases the better your cooling works, the harder you can push your processes which will benefit your bottom line. Understanding our clients' needs and providing solutions that improve your overall plant performance whilst fully supporting that equipment during its operational lifetime is what we are all about. Please take the time to read our Products and Services Brochure to find out more about DHD Cooling.

We look forward to speaking to you about your cooling needs.

DHD Cooling



Services and Solutions

Providing design, installation and
maintenance solutions for all cooling
challenges throughout Europe

Preventative and Ongoing Maintenance

Maintenance activities are crucial to the continued operation of your valued assets. Our approach will increase the longevity of your process cooling equipment, whilst minimising the risk of unexpected and costly failures.

Utilising our many years of experience, we can offer detailed inspection and reporting on all elements of your cooling system to identify potential risks and the associated consequences.

This approach can be taken on an individual cooling system or be applied across a fleet of cooling plant utilising our multi-site reporting tool. We have worked successfully with major multi-national clients to benchmark their cooling plant and provide them with a targeted maintenance plan across all of their sites, in order to maximise the efficiency, reliability and ensure regulatory compliance. This gives our clients the opportunity to plan their maintenance spend and focus on the systems that can offer the greatest return, or need the most essential works.



Before Maintenance



During Maintenance



After Maintenance

Preventative Maintenance

Helps to avoid catastrophic failure



Inspection and reporting of cooling systems in accordance with HSG274 Part 1 and ACoP-L8 Legislation

Thermal upgrades, maintenance and cleaning to prolong the lifetime and improve efficiency of cooling technology

Preventative and Ongoing Maintenance

Before Maintenance
Hot water basins suffering severe corrosion



After Maintenance
Almost every component on a cooling tower can be replaced



Adiabatic Coolers
Ideal solution for
city applications with
minimal visual impact

Cooling Solutions

DHD Cooling works directly with you and your teams to provide cooling solutions to suit any plant or requirement. We supply evaporative, hybrid, dry and adiabatic cooling systems and equipment designed to assist and enhance cooling.

We can support you in the planning, specification, design, installation, commissioning and handover of new cooling system projects.

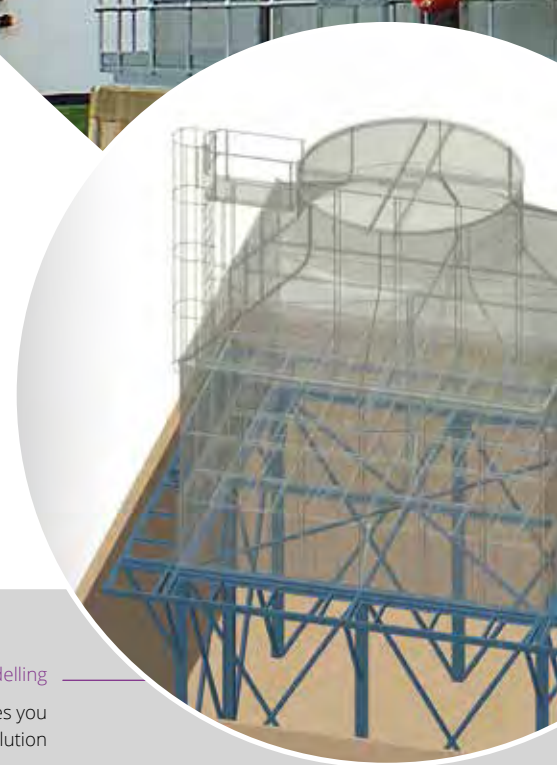
We are positioned to provide full engineered turnkey solutions or individual services and products – whichever best suits your needs.

We work with:

- End users, plant managers, engineers and duty holders
- Engineering procurement contractors
- Planners, consultants and developers
- Water treatment companies
- Facilities management companies

3D Modelling

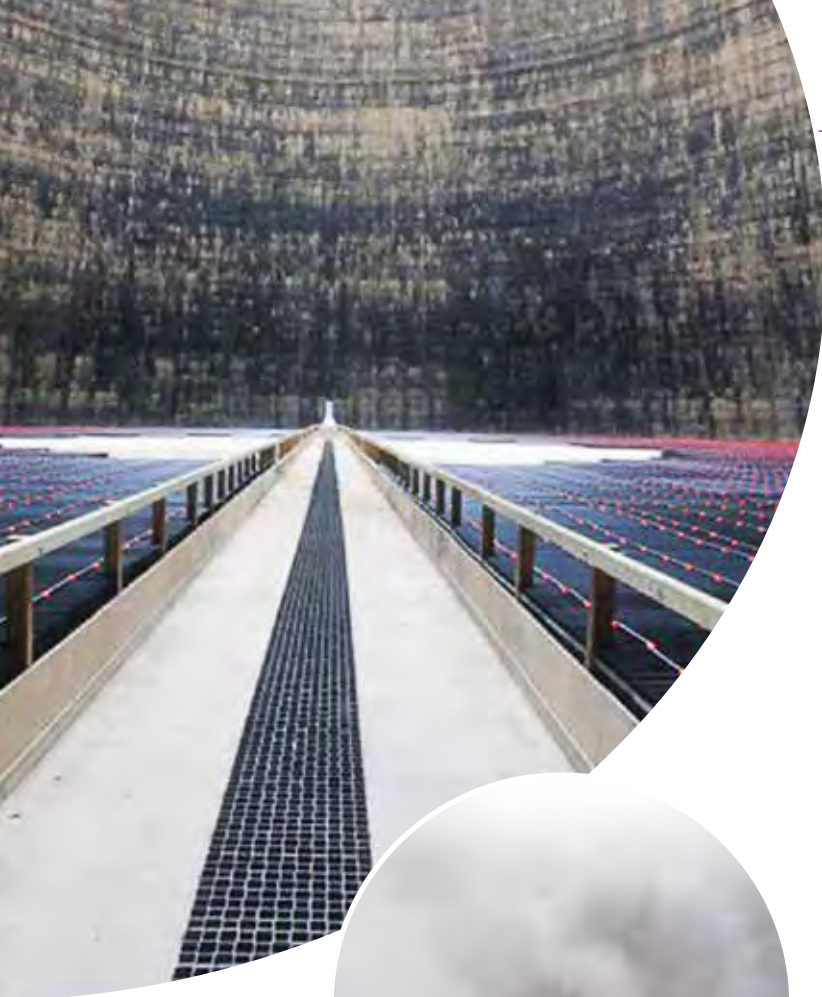
State of the art modelling software provides you with a more detailed feel for your solution





FRP framed cooling tower
under construction

Providing full engineered turnkey solutions
or individual services and products



Natural Draft Tower

After refurbishment showing complete set of new drift eliminators

Performance Enhancement

Using our comprehensive technical knowledge, detailed condition and thermal assessments, and state of the art selection software we can evaluate your cooling equipment. Comparing current operating performance against calculated potential performance allows us to quantify the benefit of any recommended changes.

Based on the latest available technology we will recommend specific improvements to enhance operational performance and minimise ongoing costs. The assessment enables easy ROI calculations on any improvement works advised by DHD Cooling.

We can provide a whole range of replacement and upgrade services and solutions including:

- Fill pack, drift eliminator and air inlet honeycomb upgrades and replacement
- Smart Controllers for fan speed control
- Distribution system replacement or redesign
- Fan machinery upgrades incorporating gearboxes, drive shafts, fans and motors
- Fan Casing upgrades and replacement



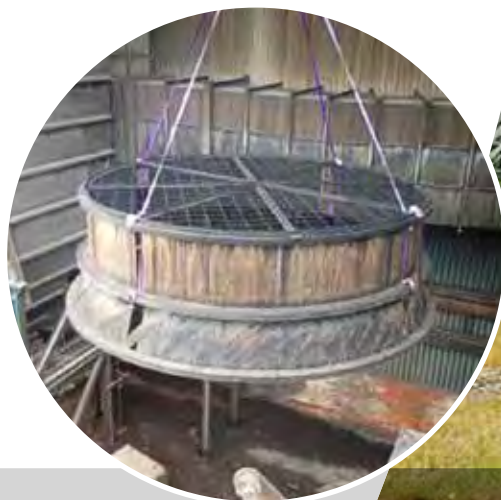
During Operation

This is the start of the journey for a plume of pure water vapour as air takes the heat away from the nation's older power stations



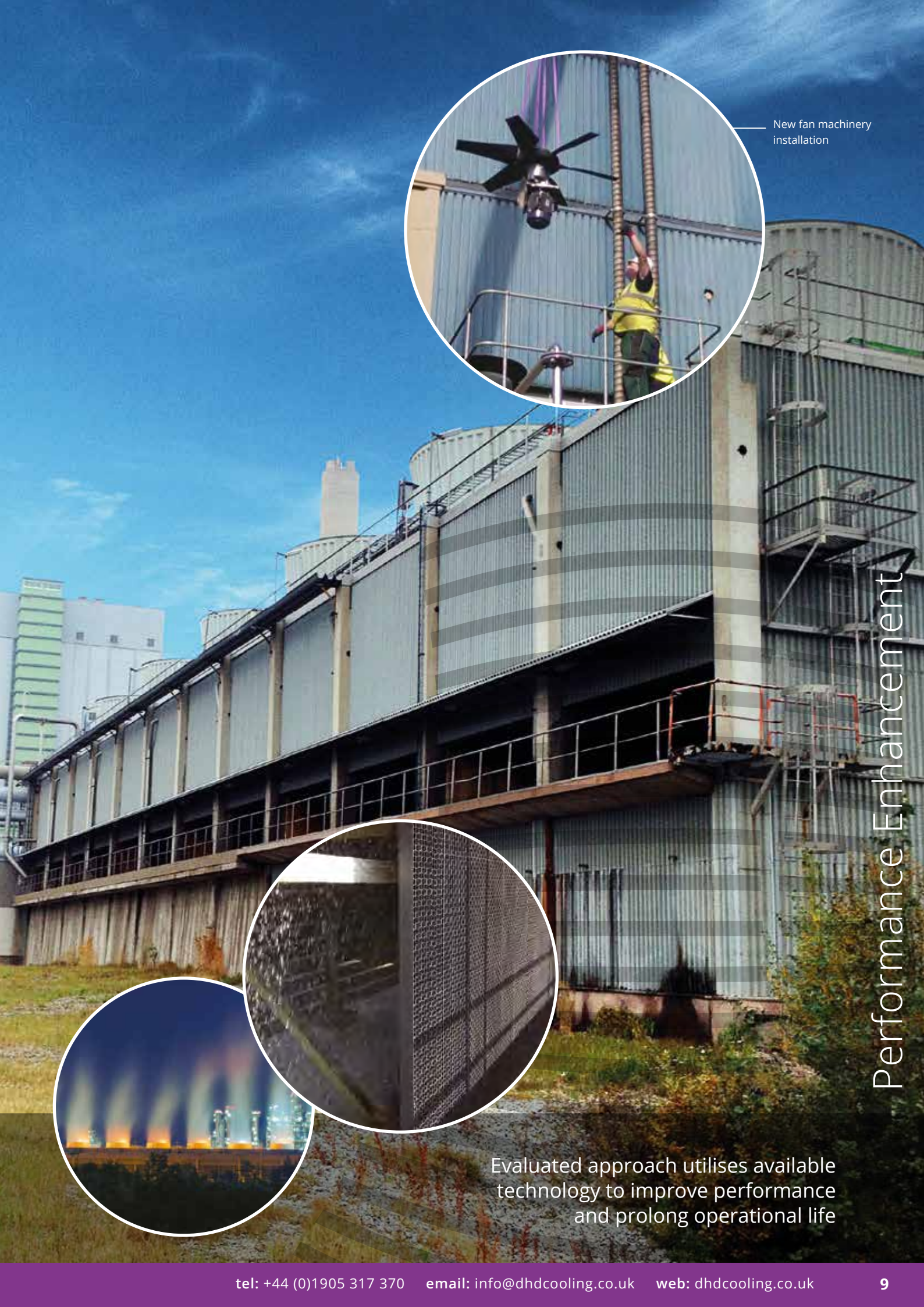
Complete Re-Pack

New heat exchange media, supports optimal performance



Fan Machinery Replacement

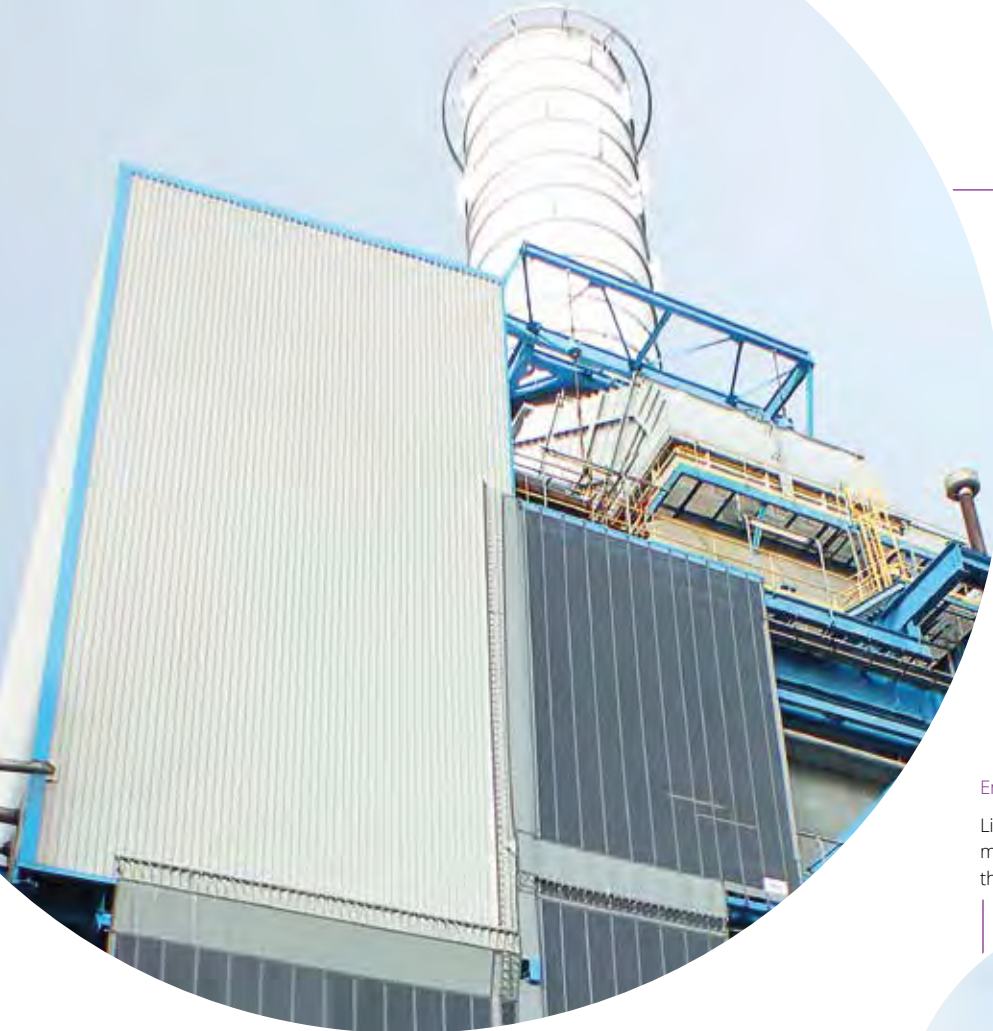
New fans and new fan stacks can improve performance of existing plant



New fan machinery installation

Performance Enhancement

Evaluated approach utilises available technology to improve performance and prolong operational life



Bespoke Protective Screens

Require minimum substructure, making them the ideal low cost alternative to cladding solutions

Engineered Fabrics

Lightweight, strong and more than a match for the elements



Complementary Systems

In addition to equipment supply and servicing, we can offer advice on how to get maximum efficiency from your plant throughout the seasons.

Using an extensive range of purpose designed solutions we can provide protection from a range of environmental factors, with bespoke products including:

- PlumeLogic™ Plume Abatement Control System
- Airborne particulate filters
- Wind reduction screens
- Winter protection screens
- Bird protection screens

These highly cost-effective rolling and fixed shielding options can help reduce the cost of cleaning and maintenance.

DHD Cooling will evaluate your needs and provide protection screening and systems that will improve the overall performance of your operating plant.



Safe by Design

Complete range of solutions to fix almost any screen to any structure



Quick Rolling Screens
to optimise airflow and
maximise performance



Keeping out the cold using
automated screens can reduce
glycol content in your air coolers
improving performance

Generate maximum efficiency
with performance enhancements
of plume abated cooling towers

Complementary Systems

- Cooling tower maintenance, condition and performance reporting, and advice on compliance with legislation
- Supply of hybrid, evaporative, dry and adiabatic cooling solutions
- Performance enhancements to improve efficiency of cooling systems
- Systems reconditioning and improvements to meet relevant health and safety requirements



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