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## **Adiabatic performance + dry cooler benefits = new ADCOOLER**

Combining the cooling performance of an adiabatic system with the benefits of a dry cooler, the new ADCOOLER closed circuit adiabatic dry cooler is a cost-effective and contamination-free alternative to cooling tower technology. This high efficiency product – which is being launched to the UK market exclusively by process cooling specialists, IsoCool - is capable of reducing the energy consumption of a chilled water system by up to 80%.

It works by drawing in ambient air via variable speed fans, and using a small quantity of saturated water to remove heat from the air through the process of evaporation. This enables the ADCOOLER to achieve near wet-bulb temperatures –and therefore, exceptional cooling performance - while at the same time, retaining the advantages offered by dry coolers.

Key to these benefits is the ADCOOLER's closed loop. As well as significantly reducing water consumption and wastage within the system, this means scale build-up is minimised, maintaining the efficiency of the unit and increasing the longevity of the plant. Health and safety issues, such as Legionella, are also avoided. These factors alone can lead to significant cost savings in utility, water treatment and maintenance fees.

The ADCOOLER offers excellent performance in temperatures over 40°C, and has been intelligently designed to automatically switch between dry and wet bulb operation according to ambient temperature and humidity. This, along with fan speed control and its compact V-shape formation, greatly contributes to efficient running of the system.

Available in a self-draining version that works without glycol, the ADCOOLER offers excellent performance even in air temperatures of below 0°C. Because anti-freeze lowers the thermal exchange coefficient, this option provides far greater environmental credentials and increased cooling capacity. What's more, the ADCOOLER's self-draining feature also makes the system more reliable as the contents of the coil and pipes will empty automatically when the unit is switched off.

Standard packaged units of the ADCOOLER have cooling capacities from 60 to 600kW, and can be expanded easily thanks to its modular design. The materials used within the ADCOOLER are of the highest quality, and are rust-proof for outdoor installation. The ADCOOLER is also available with a hydro system which recovers and re-circulates evaporated water from the adiabatic system, further reducing water consumption.

## Features and benefits

- No consumption of process water
- Air contamination is eliminated, preventing health and safety issues
- Limestone/ scale formation is significantly reduced
- Chemical treatment of water minimised
- Reduced maintenance costs
- Negligible loss of water from the adiabatic system
- Excellent performance even in temperatures over 40°C
- Efficient heat exchange at dry bulb conditions (air/water exchange  $\Delta T$  5°C)
- Low noise levels
- Modular concept to increase cooling capacity
- Self-draining version works without glycol

To find out more about the ADCOOLER please contact IsoCool on 01376 328455, email [info@isocool.ltd.uk](mailto:info@isocool.ltd.uk) or visit [www.isocool.ltd.uk](http://www.isocool.ltd.uk).

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### ***Editors' notes***

Established in 2002 by Managing Director Nigel Hallett, IsoCool Ltd specialises in industrial cooling, designing, installing and maintaining energy-efficient cooling systems across a wide range of sectors, from plastics and packaging to engineering and food. IsoCool also provides high level environmental advice relating to the age and performance of existing cooling systems at client premises. For a full company profile or to arrange an interview with Nigel Hallett, please contact PrettyGood PR.

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