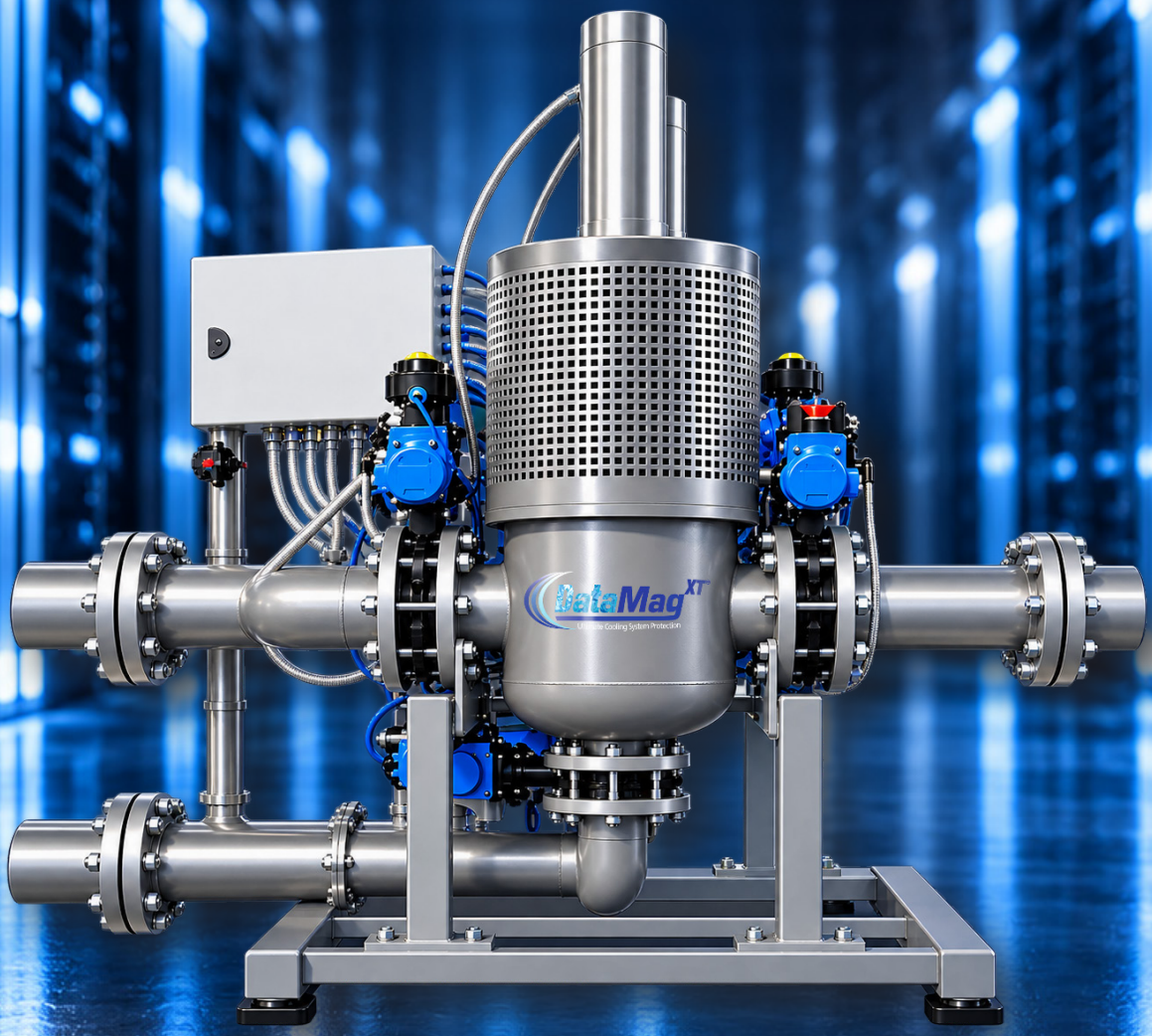
MADE IN BRITAIN®

ECLIPSE® MAGNETICS

DataMag XT™

Ultimate Cooling System Protection



Magnetic Filtration System

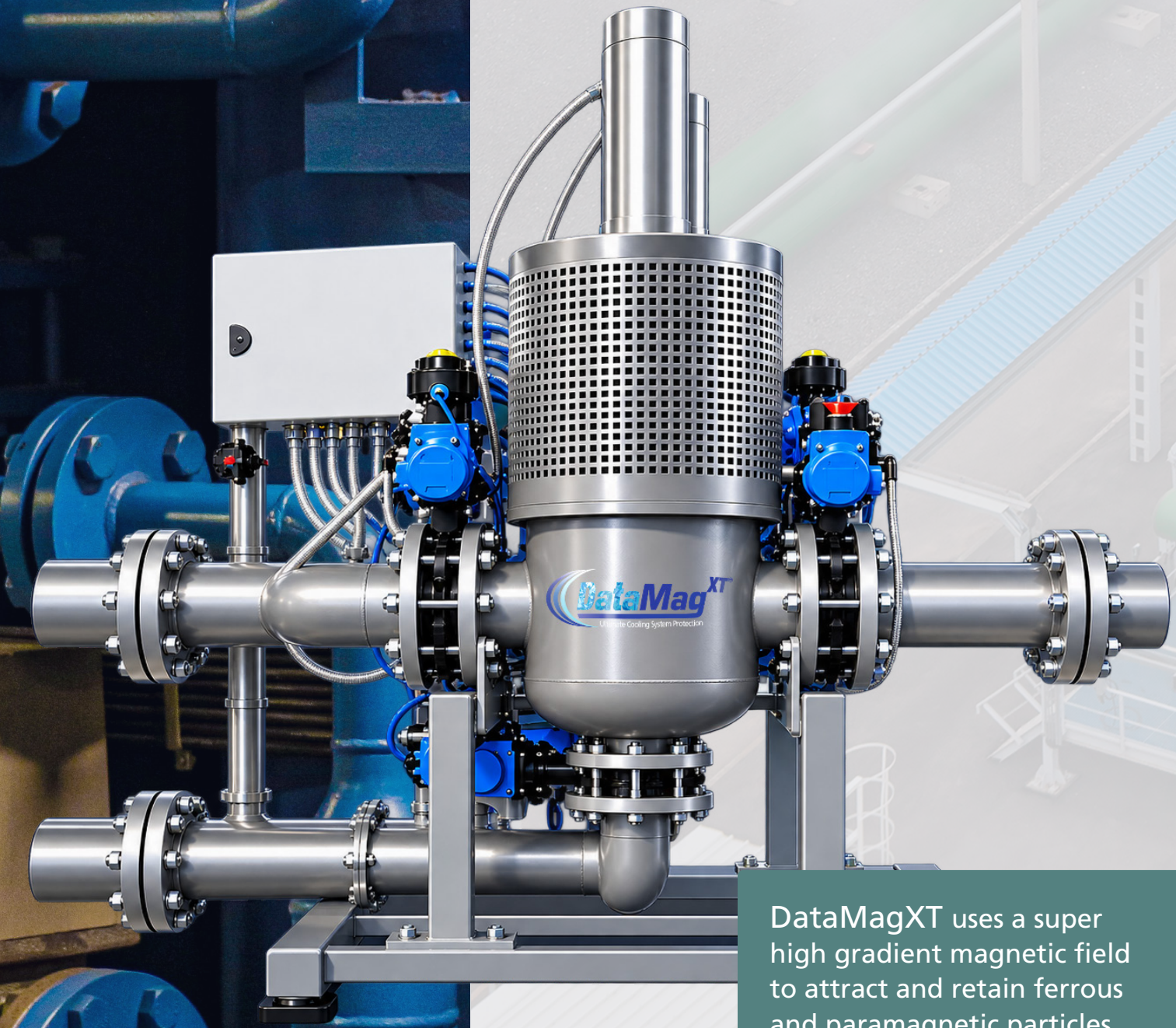
Automated for Data Centre Closed Loop Systems



Containerised Plug & Play Design

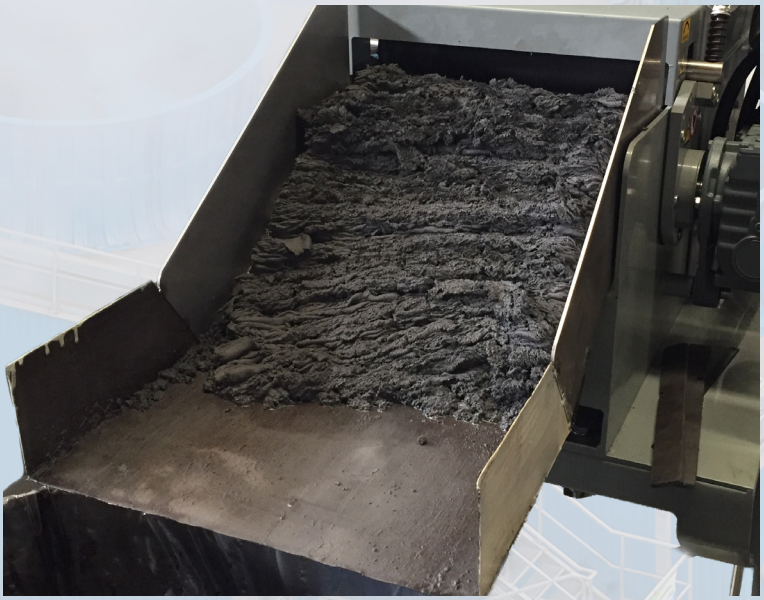
DataMagXT is designed to manage contamination in data centre closed-loop cooling systems. Harnessing the power of permanent magnets, capturing ferrous debris to help protect critical cooling infrastructure, extend the life of conventional filtration systems and reduce maintenance requirements. With negligible energy consumption, DataMagXT offers an efficient approach to fluid cleanliness, helping data centre operators protect essential cooling equipment.

With a **compact**, modular design, sub micron capture and an **automated cleaning cycle** completed in **under 10 seconds without cooling flow interruption**, DataMagXT helps data centre operators take a proactive approach to cooling system **cleanliness** while supporting operational efficiency and **sustainability** objectives.
Fluid flow is never interrupted, a dry ferrous contamination cake is generated which can be easily recycled.



DataMagXT uses a super high gradient magnetic field to attract and retain ferrous and paramagnetic particles circulating within a cooling system.

Why Data Centre Cooling Systems Need Effective Filtration



Contamination including **ferrous debris** can become a problem for closed-loop cooling systems, as the pipework corrodes and rust and scale develop, causing damage to the valves, pumps and heat exchangers. This can compromise heat-transfer performance and increase the maintenance burden on critical cooling infrastructure.

DataMagXT utilises permanent high energy **rare earth magnets** to capture ferrous contamination without relying on a consumable membrane as its separation mechanism. Its **automated cleaning cycle** returns **clean** purged fluid to the cooling circuit, avoiding **wastewater** generation and **glycol loss** during the cleaning process. It collects contamination as a dry cake suitable for recycling.

Benefits



- Fully automated system
- Extends bag and cartridge filter life
- Reduces maintenance and operating costs
- Compact size
- Fast cleaning cycle
- Not micron rated – can collect sub-micron particles
- Very low energy consumption due to the use of permanent rare earth magnets
- Full flow filter
- Modular system – can be adapted to any flow rate
- Containerised ‘plug & play’ systems available for rapid deployment



Preventative filtration helps manage **contamination** before it builds up, supporting system **cleanliness** and helping operators reduce the risk of avoidable **maintenance and disruption.**

Designed for Integration and Remote Control

DataMagXT can be configured to suit the flow requirements and layout of individual cooling circuits. Its compact footprint supports integration into existing data centre facilities, while containerisation of the filtration equipment, pipework, valves and controls can enable deployment where space and installation time are important considerations.

The system is controlled through its own PLC, with provision for local or remote control room operation where required. This supports integration into operational workflows and helps reduce the need for routine manual interaction with the filter.

Support Preventative Maintenance

Preventative maintenance is essential to managing contamination before it affects cooling system performance. By continuously managing ferrous debris and automating the cleaning process, DataMagXT can help operators reduce routine maintenance demands and maintain a proactive approach to system cleanliness.



ECLIPSE MAGNETICS

+44 (0)114 225 0600 info@eclipsemagnetics.com
www.eclipsemagnetics.com

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