MagPro Launches AeroLev 1850 Water-Smart Cooling Platform for AI Data Centres

Description

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MagPro, a joint venture between CIGU Technology Corp. Ltd. and EPG Data Technology (Shanghai) Co., Ltd., has launched AeroLev 1850, a 1.85 MW-class, 45Â°C-ready air-cooled, magnetic-bearing chiller platform aimed at next-generation AI data centres operating in high-ambient and water-constrained environments.

The platform was unveiled at Data Centre World Asia (DCW Asia) 2026 in Singapore, with Alick Wan, Founder and Chairman of EPG Data Technology (Shanghai) Co., Ltd, and William Wu, General Manager of Nanjing CIPU Technology Co., Ltd., presiding over the ribbon-cutting ceremony.

As AI computing drives greater power demand and heat density, data-centre operators increasingly need cooling infrastructure that can scale without adding to water dependence. AeroLev 1850

combines a cooling-tower-free architecture with oil-free magnetic-levitation technology and intelligent controls, aiming to deliver efficient, reliable cooling while cutting water consumption.

What the AeroLev 1850 offers

At the heart of the platform is a dedicated air-cooled magnetic-levitation compressor with isentropic efficiency of up to 87 percent. A patented condenser delivers subcooling of more than 3Â°C, while standard EC fans further improve energy performance. Together, MagPro says these technologies deliver up to 40 percent higher overall energy efficiency and up to 8 percent lower failure rates compared with conventional oil-lubricated compressors, and up to 10 percent lower maintenance costs compared with conventional chillers.

By eliminating evaporative cooling water, AeroLev 1850 removes a significant operational constraint for data centres in arid and water-stressed regions. Its free-cooling capability uses ambient air during cooler periods to reduce compressor runtime, power consumption and operating costs.

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MAGPRO
EPG
MODULAR DATA CENTER
AeroLev 1850
Air-Cooled Magnetic Levitation
Chiller Platform
45 °C-Ready
1.85 MW-Class
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The platform is also engineered for the shift toward direct-to-chip and immersion liquid cooling. AeroLev 1850 can supply chilled water at temperatures up to 45Â°C, supporting emerging high-temperature cooling architectures without requiring major infrastructure reinvestment. Its standardised modular design is intended to support rapid installation and flexible expansion as AI capacity grows.

â??As water constraints become a defining consideration for data-centre development, AeroLev 1850 advances a resilient model for AI data-centre cooling,â• said William Wu. â??It enables efficient, reliable compute growth in challenging environments while turning todayâ??s infrastructure into long-term resilience.â•

â??MagPro marks an important step in our global cooling technology strategy,â• said Alick Wan. â??By combining EPGâ??s engineering and delivery expertise with CIGUâ??s core magnetic-levitation technology, we are building resilient, resource-efficient digital infrastructure that is less dependent on water.â•

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The launch comes amid growing scrutiny of energy, water and resource efficiency in Singaporeâ??s data-centre sector, which has also been the subject of recent regulatory attention such as the Digital Infrastructure Bill introduced earlier this year. AeroLev 1850 was showcased alongside other data-centre and AI infrastructure announcements at Tech Week Singapore, reflecting the pace of investment in the sector.

MagPro operates a production base of more than 6,000 square metres with two air-cooled laboratories supporting testing of air-cooled units up to 2,000 kW. Parent company CIGU Technology Corp. Ltd. (SSE: 688448), a STAR Market-listed firm headquartered in Nanjing, has delivered more than 10,000 maglev turbomachinery units worldwide.

Date Created
03/10/2026
Author
vanessakoh

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