

Aruba activates liquid cooling solutions in the Ponte San Pietro (BG) data centre campus

This cooling technology is crucial to meeting the increasing density and computing power demands of artificial intelligence, high-performance computing and other high-density applications

London, 1st August 2024 – [Aruba S.p.A](http://www.aruba.it) – Italy's leading provider of cloud, data centre, hosting, e-mail, domain registration and PEC (certified e-mail) services – has announced the implementation of liquid cooling within the data centre campus in Ponte San Pietro (BG), near Milan.

Liquid cooling enables the support of increasingly dense racks in data centres and meets the needs of new generations of processors. This type of technology is intended to support specialised hardware of public and private customers with specific needs in artificial intelligence or high-performance computing (HPC), applications that require high processing intensity.

“By establishing one of the first spaces equipped to accommodate liquid-cooled cabinets, Aruba is one of few industry players ready to provide the next generation of machines designed for artificial intelligence and high-performance computing,” commented Giancarlo Giacomello, Head of Data Centre Offering. *“This type of solution responds to the growing needs of the market that require an increase in computing density and power, offering full compatibility with next-generation systems. Integrating liquid cooling solutions into our infrastructures is part of Aruba's innovation strategy, based on the desire to explore and support all initiatives that allow us to offer customers the highest quality, performance and environmentally sustainable solutions. To do so, we design and maintain our data centres at the forefront of technology, ready to face future challenges.”*

Strengths of liquid cooling include:

- **Higher thermal efficiency:** liquids have a higher heat transfer capacity than air, allowing adequate thermal dissipation for each rack even above certain density thresholds.
- **Energy efficiency:** in high-density infrastructure, this type of cooling proves more efficient than traditional air systems.
- **Higher computing density:** liquid cooling supports processors and GPUs with high thermal requirements and can handle higher power densities.

Thanks to the design that distinguishes Aruba's data centres, the liquid cooling solution was integrated into an environment already in production without needing to dedicate a separate space or portion of the facilities to liquid cooling. This greatly reduced implementation time since all data rooms had already been prepared for applications involving liquid-based heat exchange.

For further information about Aruba's Data Centres: www.datacenter.it

Aruba S.p.A.

Aruba S.p.A. (<http://www.aruba.it>), founded in 1994, is Italy's leading provider of cloud, data centre, hosting, e-mail, domain registration and PEC (certified email) services. The company, with wholly Italian capital, has 16 million users and manages a vast infrastructure distributed on 7 data centres that includes 2.7 million registered domains, 9.8 million e-mail accounts, 9 million PEC accounts and thousands of customer IT infrastructures. Aruba PEC and Actalis are the group's two Certification Authorities, accredited with AgID (Agenzia per l'Italia Digitale) for the provision of qualified services. Aruba's infrastructure is also qualified by ACN (National Cybersecurity Authority) to handle ordinary, critical and also strategic PA data. In 30 years of activity, Aruba has developed extensive experience in the design and

management of high-tech data centres, owned and distributed throughout Italy. The largest is located in Ponte San Pietro (BG) and features green-by-design infrastructure and facilities that comply with the highest security standards in the industry (Rating 4 ANSI/TIA-942, ISO 22237), to which is added the Hyper Cloud Data Centre in Rome, which covers 74,000 m² in the area of the Tecnopolo Tiburtino and at full capacity will include 5 independent data centres. Aruba implements energy-efficient solutions in its data centres, demonstrating its commitment to sustainability and, in addition, produces clean energy through photovoltaic plants and hydroelectric power plants. The infrastructure network also extends across Europe, with a proprietary data centre in the Czech Republic and partner facilities located in France, Germany, Poland, and the United Kingdom. For further information, please visit <https://www.aruba.it/and> social networks [Facebook](#), [X](#) and [LinkedIn](#)

Media Contacts

Megan Cowlbeck/Lorna Miller

aruba@rlyl.com

Red Lorry Yellow Lorry for Aruba