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NEWS RELEASE

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Xylem unveils 5th generation HYDROVAR intelligent control system *Highly efficient variable speed drive reduces energy consumption*

Xylem, a global water technology leader, is debuting the [5th generation HYDROVAR](#), an intelligent control system that accurately adapts to system demands, helping end-users realise cost and energy savings while achieving optimum system performance. The new drive and motor control can reduce energy consumption of a pump by as much as 70 per cent.

Capable of running systems with up to eight pumps, the 5th generation HYDROVAR has multimaster functionality, enabling each individual pump to take control if one or more units or sensors are not active. This continuous booster system operation ensures reliable water pressure across various residential, industrial and commercial applications.

“Variable speed drives (VSDs) are one of the most critical components of a pump system, driving operational and energy efficiencies and saving building owners and operators time and money,” said Giorgio Sabbatini, Market Segment Manager, Industry & Agriculture, AWS EMEA, and Global Commercial Building Services Business Unit Director, Xylem. “We’ve developed this next generation HYDROVAR to be an advanced control system with expanded capabilities, giving users the most streamlined way to achieve these results.”

Easy installation and commissioning

The 5th generation HYDROVAR is backward compatible to the current Generation 4 HYDROVAR product and is designed to accommodate both new and retrofit installations. A newly added wiring harness includes a separated wiring chamber with a dedicated cover that provides safe and easy access to the wiring, while protecting the unit's electronic components. The clip-and-go mounting system further simplifies the direct fitting process.

Setup and commissioning is also fast and simple. The start-up menu guides users through every step of HYDROVAR's commissioning process, while the larger LCD display shows an expanded range of system parameters for standard motors. This functionality enables installers to manage a wider range of data, ensuring accurate programming at setup.

The 5th generation HYDROVAR comes standard with BACnet and Modbus capability for seamless Building Management System (BMS) integration. Optional Wi-Fi for remote connection to the unit via any mobile device, laptop or PC is also available.

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Extended system lifecycle, efficient operation and simple retrofitting

Wear and tear caused by standard operation is minimized due to innovative features, including advanced motor control software that extends the life of the equipment by reducing heat. The HYDROVAR also has an embedded Current Total Harmonic Distortion (THDi) filter that lengthens overall life of the equipment connected to the same grid and preventing cables from overheating without the need for reactor filters.

Using HYDROVAR with an existing pump can lead to significant energy savings, especially when operating at partial loads. It can be efficiently retrofitted to any standard asynchronous pump motor suitable for variable speed operation. HYDROVAR's direct mounting method does not require a special adaptor, and is available for power ranges from 0.55 to 22 kW, making the retrofit process efficient, easy and cost-effective.

"In many cases, pump systems are oversized for the application and use more energy than needed for typical operation," said Sabbatini. "The 5th generation HYDROVAR varies motor speed to match system demands, keeping energy and operational costs low. Additionally, the soft start-and-stop functionality adapts pressure according to system requirements, dramatically extending equipment life."

HYDROVAR's modular design enables a customized fit for any configuration of pumps, and can be motor or wall mounted to for use with any manufacturer's pump. Configuration options include a range of a single pump to as many as eight pumps to meet any application requirements.

Introduced in 1995, the HYDROVAR variable speed drive has been continually updated, confirming its legacy as the industry's choice for optimising fixed speed pump efficiency.

For more information on the 5th generation HYDROVAR, please visit www.hydrovar.com.

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About Xylem

Xylem (XYL) is a leading global water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential and commercial building services, industrial and agricultural settings. The company does business in more than 150 countries through a number of market-leading product brands, and its people bring broad applications expertise with a strong focus on finding local solutions to the world's most challenging water and wastewater problems. Xylem is headquartered in Rye Brook, New York, with 2015 revenues of \$3.7 billion and approximately 12,500 employees worldwide. Xylem was named to the Dow Jones Sustainability Index for the last four years for advancing sustainable business practices and solutions worldwide and the Company has satisfied the requirements to be a constituent of the FTSE4Good Index Series each year since 2013.

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The name Xylem is derived from classical Greek and is the tissue that transports water in plants, highlighting the engineering efficiency of our water-centric business by linking it with the best water transportation of all — that which occurs in nature. For more information, please visit us at www.xylem.com.

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