

## Yaskawa Releases U1000 iQpump Low Harmonic Intelligent Pump Drive

*Power Technology Provides Harmonic Mitigation, Power Factor Control, and Energy Savings in a Single Compact Package*

**Waukegan, IL.** The Drives & Motion Division of Yaskawa America, Inc. announces the release of the U1000 iQpump drive.

The U1000 iQpump provides extremely low harmonic distortion in a space-saving design, along with the same on board intelligent pump-specific features and protection as the standard iQpump1000. This single component solution allows for seamless user transition and achieves excellent low distortion levels without the need for additional countermeasures such as passive filters or multi-pulse arrangements.

Unlike conventional drives, Yaskawa's matrix technology employs a system of 9 bi-directional switches that are arranged in a matrix to convert a three-phase AC input voltage directly into a three phase AC output voltage. It eliminates the need for a rectifying circuit and a DC bus that are used in traditional AC inverters. Matrix technology reduces total harmonic distortion levels to less than the IEEE compliance standard of 5%, without the need for reactors and filters. The result is a smoother current waveform that reduces stress on the system power supply and infrastructure. Additionally, the U1000 iQpump improves true power factor to near unity at full load, reducing energy costs.

Not only does the U1000 iQpump drive provide outstanding harmonic performance, but being a member of the iQpump product family, it provides the same user experience for those already familiar with commissioning and maintaining the standard iQpump1000.

Product Manager, Jason Wellnitz, stated, "We believe the U1000 iQpump is the best low harmonic pump drive on the market. It has a unique blend of high efficiency and convenient packaging, and now we've included the industry leading iQpump control."

Other features of the U1000 iQpump drive include the following:

- Integrated input fusing to provide 100kA SCCR
- Eco-Mode to achieve near across-the-line THD
- LCD operator with Hand/Off/Auto and Copy function
- Internal real-time clock for event stamping

Available open-chassis drives include ratings of 10 to 100 HP (240V) and 7.5 to 350 HP (480V) with optional NEMA 1 end cap kits. U1000 iQpump is offered both as a stand-alone drive, as well as in NEMA 3R configured package solutions.

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**About Yaskawa**

Yaskawa America's Drives & Motion Division manufactures industrial automation equipment, including low and medium voltage variable frequency drives, intelligent pump drives, servo systems and motion controllers, low-voltage industrial controls and spindle drives and motors. The company's Motoman Robotics Division makes industrial robots that can weld, assemble, cut and handle goods for manufacturers.

Yaskawa products are used in a wide variety of industries, including packaging, automotive, building automation, pharmaceutical, machine tool, material handling, metal forming, solar, pumping, water/wastewater treatment, agricultural water, plastics, rubber, and textile. Yaskawa America, Inc. employs more than 1,000 people in its headquarters in Waukegan, IL, its manufacturing facilities in Buffalo Grove, IL and Oak Creek, WI, and in offices across the United States. For more information about U1000 iQpump and other Yaskawa products visit our website at [www.yaskawa.com](http://www.yaskawa.com).