

LOWEST HARMONICS. EASY TO OPERATE. MOST EFFICIENT.

THE U1000 IQPUMP® MATRIX DRIVE AG WATER PUMPING SOLUTION



240 VAC Input: 10-100 HP
480 VAC Input: 7.5-800 HP



The U1000 iQpump Matrix Drive generates extremely low harmonic distortion for water pumping applications, meeting the most stringent IEEE 519 requirements in an innovative, space-saving design.

The U1000 iQpump Matrix power structure saves you time and money by:

- Eliminating passive power filters and phase shifting transformers
- Reducing shipping costs
- Reducing transformer size
- Reducing mounting pad size
- Reducing wire
- Reducing time on site

ELIMINATE UNNECESSARY COMPONENTS:

- Input Line Reactors
- 3rd Party External Harmonic Filters
- External Fusing
- Power Factor Correction Capacitors
- Motor Shaft Grounding Brushes

Reduce wiring by:

70%

Reduce size by:

65%

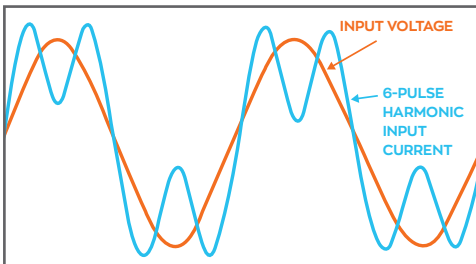
Reduce weight by:

81%

Reduce power by:

19%

Based on: 480V 100HP drive, compared to Active Front End (AFE) drives



WHY ARE HARMONICS IMPORTANT?

Harmonics distort the power on the grid. These distortions can affect the electrical system in various ways. For example, harmonics can overheat power wires and transformers or cause erratic operation of other electrical loads on the grid. When these situations occur it opens the door for downtime and expensive repairs.

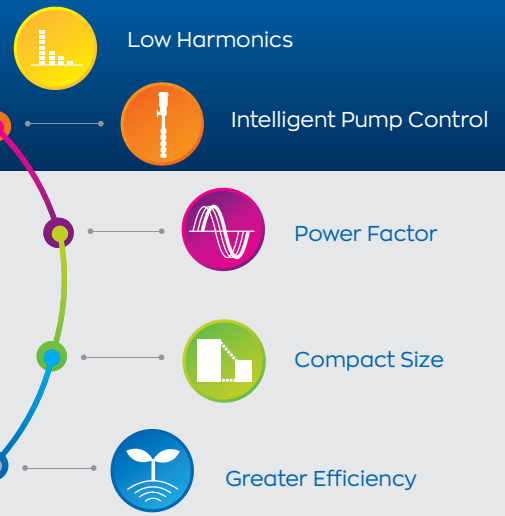
IT'S PERSONAL

YASKAWA

Yaskawa America, Inc. 1-800-YASKAWA | Email: info@yaskawa.com | yaskawa.com
Document No. FL.iQpump.03 | 12/04/2024 | © 2018 Yaskawa America, Inc.

WHY USE U1000 iQPUMP?

- ✓ IEEE 519 System compliance over a wide speed and load range
- ✓ Simply 3 wires in and 3 wires out, providing faster and easier installation
- ✓ Near unity power factor, therefore decreasing unity cost compared to other technologies
- ✓ Greater power conversion efficiency than other harmonic solutions
- ✓ Compact & eco-friendly design



UL Type 3R Packages

Yaskawa offers quick lead time on cost-effective UL Type 3R U1000 iQpump packages with a variety of standard options. You can also get engineered packages to meet your custom requirements.

STANDARD FEATURES

- Door mounted keypad
- Disconnect
- 104°F / 40°C maximum ambient temperature
- UL Listed

POWER OPTIONS

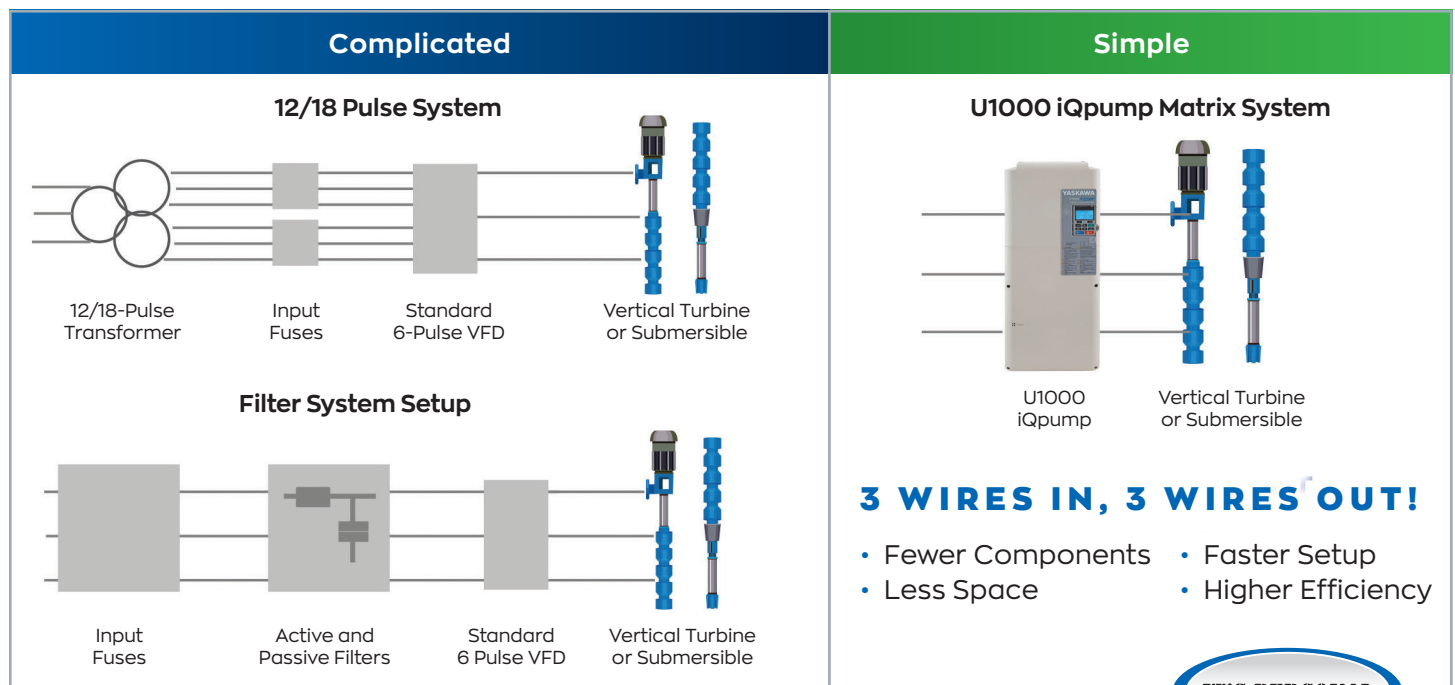
- Output reactor - motor terminal block
- Circuit breaker (Service Entrance Rated)
- RayCap brand surge arrestor
- Space heater
- 122°F / 50°C maximum ambient temperature
- Motor power terminal block

CONTROL OPTIONS

- Ethernet IP option card
- 200VA control transformer
- Keypad viewing window
- Door mounted hand-off-auto switch
- Door mounted speed pot



150 HP @ 480 VAC
UL Type-3R Package



IT'S PERSONAL

YASKAWA

Yaskawa America, Inc. 1-800-YASKAWA | Email: info@yaskawa.com | yaskawa.com
Document No. FL.iQpump.03 | 12/04/2024 | © 2018 Yaskawa America, Inc.