

**YASKAWA**

# iQ PUMP<sup>®</sup> APPLICATIONS

DEFINING THE NEW STANDARD FOR  
PUMP CONTROL AROUND THE WORLD

**IT'S PERSONAL**



# iQPUMP®

The Smart Choice for Pump Control and Protection



Take Back Control  
of your Pump and  
Process.

Yaskawa's family of iQpump drives offers a wide variety of package options and the most advanced comprehensive pump and motor protection in the industry.

The iQpump series from Yaskawa is your total pumping solution for whatever your system demands, while maintaining the simple pump terminology programming customers have come to expect.

**Dedicated and field-proven integrated pump functionality makes system integration easy and efficient.**

- Intuitive pump terminology keypad with simplified application pump macros guides user through commissioning and startup
- Reduces wear on pumps and motors
- Keep pumps working at optimum efficiency points
- Controlled acceleration / deceleration minimizes water hammer in pipelines
- Reduces voltage draw down on power lines at start up
- Eliminates need for pump control valves in many instances
- Controls pump to deliver accurate flows or constant pressures
- Convert utility single-phase input power to three-phase output

# iQPUMP® MAKES LIFE BETTER

Real life applications. Real life results

## GOLF COURSE IRRIGATION



iQpump was used to replace systems utilizing clay valves to regulate pressure. The golf course was able to cut flow rate to 75%, even to 50% at times, resulting in great energy savings.

## CROP IRRIGATION



Flow and pressure adjustments are made easier by focusing on water management and controlling pump speed. Over-utilization of water supply and fertilizer can also be avoided.

## BOOSTER/LIFT STATIONS



Advantages over constant speed systems: reduced energy consumption, constant pressure supply, improved system control/operation, steady-state flow, water hammer, reduced component wear, increased pump life.

## OFFICE PARK IRRIGATION



Unhooking from city water and submersing pumps into two retention ponds saved an office park thousands of dollars in the first six months. Installing iQpump also produced more consistent pressure control.

## GEOHERMAL SYSTEMS



Earth's ground can be used as an energy source in many ways when harnessed to provide environmental cooling and heating—including generation of power.

## WATER TOWER & STORAGE TANKS



Maintain even water pressure distribution in the pipeline by controlling water level in the tank.

## DESALINIZATION PROCESSING PLANTS



Converting ocean water to drinking water requires high pressure pumps and filtering systems. Accurate flow and pressure control maximize the efficiency of producing clean drinking water.

## CENTRIFUGAL AND VERTICAL TURBINE PUMPS



No matter the pump type, iQpump has the onboard intelligence to control and protect your investment.

## SUBMERSIBLE PUMPS



iQpump anti-jam feature allows for automatic clearing of silt or sand that has entered the well screen and has lodged within the impeller of the pump.

## WATER/WASTE WATER TREATMENT



Disruptions, fluctuations, and uneven flow can strain the system. Drives regulate all parts of the process from mixers, RAS pumps, chemical feed pumps, blowers, aerators and other equipment.

## RETROFIT

### Triplex 7.5HP Pressure Booster Upgrade in a Michigan Cancer Hospital

Obtain constant pressure / flow control of simplex or multiplex pump systems with one drive solution. Replace complex electromechanical switch gear and outdated PLCs with iQpump for a fully configurable, intelligent pumping system.

