

Energy-efficient, less complex with remote monitoring

GRUNDFOS iSOLUTIONS



Industrial Water Equipment Ltd, UK

See how RO systems have gained intelligence and can save 70% energy per m³ water produced with Grundfos intelligent solutions

If Industrial Water Equipment's (IWE's) reverse osmosis (RO) water treatment systems stop working, some of IWE's customers must destroy whole batches of production. They rely on a reliable, guaranteed source of purified water. While IWE had several good RO units, they required human input, says Sales Manager Justin

Underhill. "It was down to the customer to notice, 'The tank is not filling.' Or: 'The conductivity is going up.' It was a constant need for someone to take responsibility. If that person was away or negligent in any way, production stopped. Very costly." In addition, customers were also requesting more energy-efficient units.

70%
Energy savings

Easy
Operations 

Reduced
Footprint 



Possibility in every drop



“We’ve worked with Grundfos iSOLUTIONS to take a unit that was already successful and make it better.”

Justin Underhill
Sales Manager
Industrial Water Equipment Ltd.

The solution

IWE’s new iPRO series of RO units use the Grundfos CRIE intelligent pump, digital dosing, direct sensors, remote monitoring and other components to gain intelligence and easy integration. They reduce system complexity and physical footprint. While the previous 2.2 kW pumps were fixed-speed, the new 500 W pumps are variable speed and powered by IE5 motors, reducing the pumps’ energy rating “massively.” They save 70% energy per m3 of water produced.

Savings and flexibility

With so much energy savings, the new iPRO series allows customers to save a lot of money on daily operation of the machine. Plus, automatic, remote monitoring in real time increases the units’ reliability and allows for preventative maintenance. “If there are any issues with the membranes such as differential pressure, that’s detected one stage earlier. Our customers need pure water. They need to know if there is a problem coming up, and then they can plan for it,” says Justin Underhill. “We’ve worked with Grundfos iSOLUTIONS to take a unit that was already successful and make it better.”



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