

PureCare – Overhaul, Refurbishment & Upgrades for Optimum Productivity and Efficiency



New ECOSAVE water softening unit saves money and protects the environment

Following a review of Marston's existing duplex softening plant and corresponding steel vessels, a series of upgrades were recommended and undertaken.

A high efficiency EcoSave 450 softener solution was recommended and installed to replace the existing system. The EcoSave softener system is a volume controlled and counter-current plant, specifically selected for its reliable and economic operation. Using volume controlled plant ensures full capacity operation before an automatic regeneration is initiated. The systems are designed as fully automated duty and standby for 100% duty 24 hours a day.

The counter current operation corresponds to the service and regeneration flows working in opposing directions resulting in significantly reduced salt usage when compared with a conventional water softener.

Benefits of the EcoSave Series include:

- Most efficient softener system on the market
- Significant water savings
- Significant salt usage saving
- Conductivity regeneration sequence control
- 100% duty operation
- PLC Controlled with touch-screen interface



In addition to immediate savings in operating costs, there are a number of other advantages:

- A simpler design
- Five valves instead of 20 different valves
- Fewer components meaning less maintenance

“The existing 20 year-old softener vessels had rusted right through. The cost of repair would have been half the cost of this new replacement. An extra new bottling line increased soft water demand and made reliability even more important. The predicted cost savings are anticipated to be significant - approximately £15,000 per year, giving us a very attractive plant payback period. The saving is from the regeneration cycle using 30% less salt and less water going to drain. Envirogen pulled out all the stops to order and install it within our 2 week annual shutdown.”

Colin Walton, Senior Engineer, Marston's

Bill Denyer, Technical Services Manager, explains that “although installing new plant, particularly with a quick pay back is great, it doesn't have to be about new plant. Any plant, including softeners or associated vessels, pipework and control panels can be upgraded and refurbished to ensure smooth running of all facets of a production line, thus reducing the risk of unexpected downtime”

