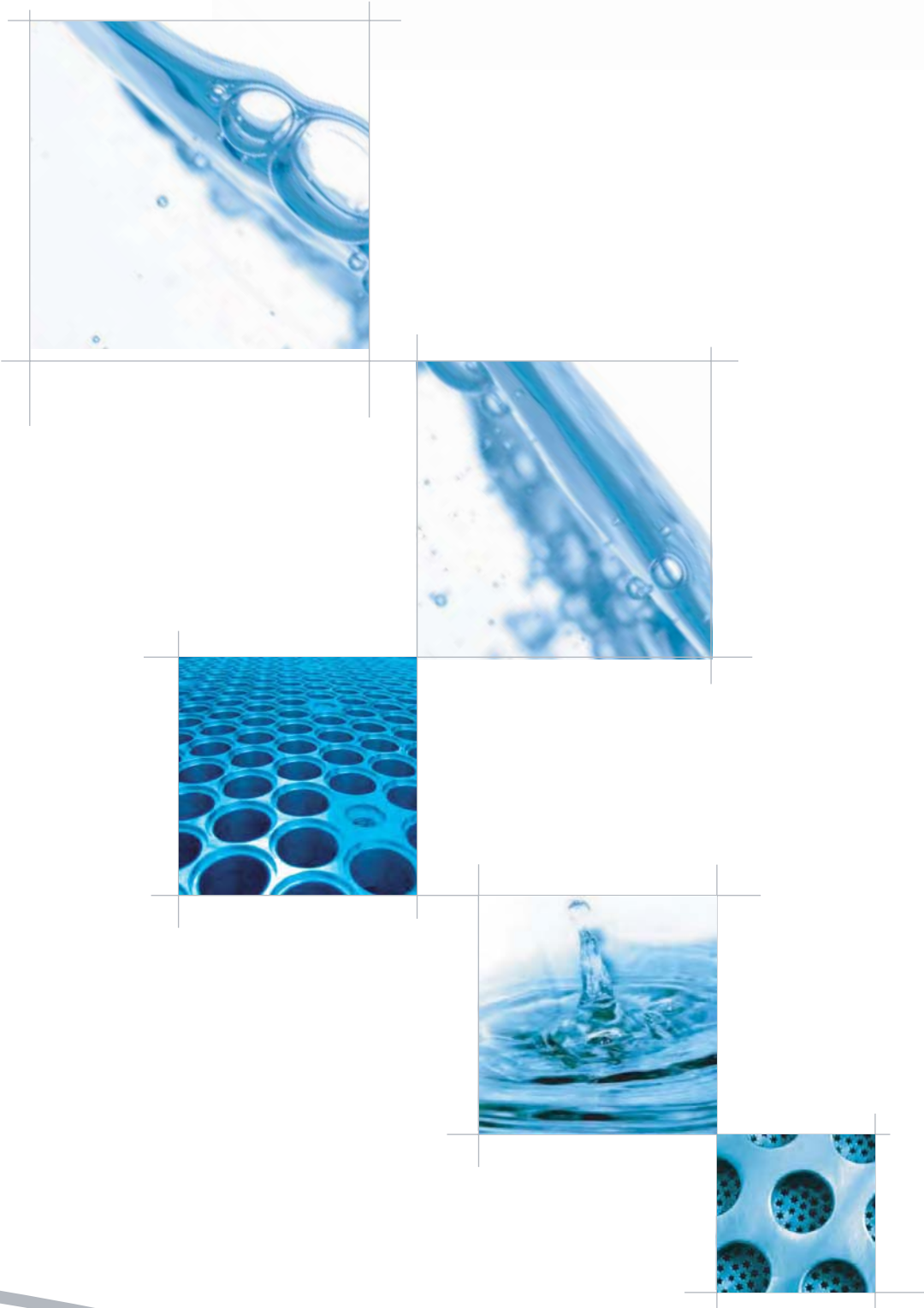




laundry systems division



laundry water recycling systems



# BROADBENT LAUNDRY SYSTEMS LAUNDRY WATER RECYCLING PLANT

## SAVE MONEY:

## RECYCLE YOUR WATER

### Increasing Utility Costs Means Increasing Budgets!

As utility costs continue to rise year on year the benefits of recycling water are becoming more apparent.

Many major laundries are now benefiting from reduced costs of water, effluent & gas thanks to filtration technology such as that developed by Broadbent Laundry Systems.

### Proven Technology

Now established across multiple UK Laundry sites, the Broadbent range of laundry Water Recycling plants are now being marketed in Europe by our partner Christeyn's as Ceram-X.

Initially installed for Sunlight Services Group at Coventry in 2006, the system has gone on to be installed at a further five U.K. sites, with clients including The National Health Service in addition to larger independent Laundries within the UK. The system has been validated with proven recovery rates, water quality and plant reliability.

### Quality

The LWR range of water recycling plant utilises patented ceramic filtration technology to recover 70-88% \*\*\* of the effluent discharged to the quality requirements of the TSA specification.

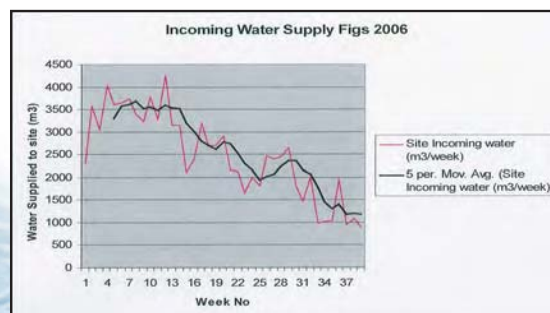


### Specification

The current LWR range of water recovery plant can be designed to cover effluent volumes in the range of 15 - 66 m<sup>3</sup>/hr. Each design is dependent upon effluent volume and composition (TDS). In somecases RO technology may be required to supplement the ceramic system.

### Total Package

The Broadbent package includes all aspects from initial survey to design, installation, commissioning, monitoring, training and handover. Our team of engineers and water treatment chemists provide full technical support. Key to any handover of new plant is the confidence that the plant meets the initial agreed specification and cost saving potential. Prior to handover Broadbent will present all facts and figures of system performance and water quality.



TSA Parameters	Target Spec	Actual
PH	6.5 – 8.0	7.25
TDS	750 ppm max	322
Alkalinity	260 ppm max	121
Turbidity	10 ntu max	0.7
Colour	None	None
Iron	0.2 ppm max	ND
Manganese	0.2 ppm max	ND
Copper	0.5 ppm max	ND
Aluminium	10 ppm max	ND

ND = None Detected



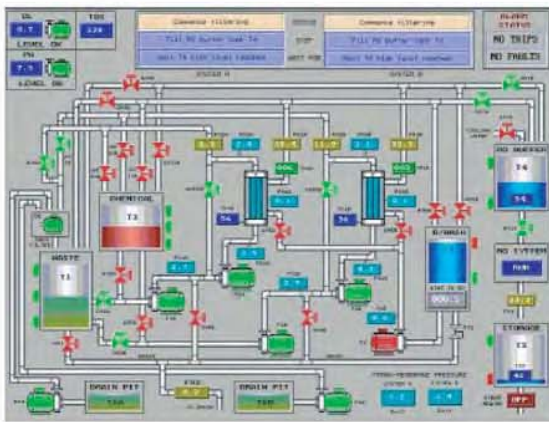
## Support & Service

With over 140 years experience in separation technology, Broadbent have an established after-sales support facility. The equipment is backed by a full warranty with support provided by a team of regional engineers.

The cost of water and energy has reached a point where all laundry facilities should be looking to be more efficient and laundry water recycling certainly provides a level of savings in many areas which can substantially reduce processing costs for the future.

Broadbent's involvement in the separation industries for many years, together with a patented design of ceramic micro filter elements, has provided a real solution to the problems associated with laundry water recycling.

The use of ceramic filters for this application not only provides excellent quality filtration, but being unaffected by the high temperature and chemical content of laundry effluent and as a virtually indestructible substance, the ceramic provides good longevity in service, is easy to clean and maintains performance well.



## Advanced PLC Controls

Each system is under PLC control with the capability to download key performance data. Instrumentation and control systems include bulk chemical dosing to minimise chemical handling, online continuous monitoring of turbidity, PH and TDS (key quality parameters within the TSA specification).

Each system can include optional extras for bulk lint removal and dewatering, effluent flow measurement and an effluent autosampler unit.



Benefits of water recycling include substantial reductions in water and effluent costs, significant reduction in energy costs (associated with heat recovery) and also reduction in salt usage. Typical paybacks of 1-3 years are achievable in most cases.

## Funding

As the Broadbent Laundry Systems recycling plant is registered with the Water Technology List the enhanced Capital allowance (ECA) benefits are available.

This scheme allows the purchaser to claim back up to 30 percent in Corporation Tax for the full value of the installed system in the first 12 months, which equates to approximately 5 - 7% value of the total package price.

Small to medium enterprises can also apply for a Carbon Trust Grant to assist with the capital purchase of the equipment where they could claim up to £100,000 in an interest free loan over 5 years, as well as the ECA tax benefit.



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