





XTRACT – The Company

XTRACT is not only the leading Ceramic Industry specialist in the design and manufacture of glaze and slip reclamation equipment, but also specialists in the reclamation of submicron viscous slurries from industrial processes.

We are a British-based technology-led company offering a comprehensive range of automated equipment, backed by Xtract's considerable industry proven experience in the recovery of highly viscous slurries.

Continuous research and development ensures our products are always innovative and are at the forefront of industry's increasing demand to recover valuable raw materials.

XTRACT – The Industry

XTRACT provides support to modern manufacturing processes, promoting the most efficient capture and reuse of valuable raw materials. The highest levels of raw material utilisation are already being achieved within industries as diverse as Sanitaryware, Tableware, Tiles and other industrial sectors where raw material recovery is paramount to the economics of the production process.

Customers are supported in all areas, from original concept through financial appraisal, planning, implementation, installation, operation and training. A complete 'Turnkey' approach is offered.

Sanitaryware and Tableware Sectors – A Proven Speciality

XTRACT has been successfully installing glaze and slip recovery systems within the Sanitaryware and Tableware sectors for over 15 years. We have recovered thousands of tonnes of material for our customers saving them millions in recovered material costs year after year.

We have significantly improved the cost effectiveness of the process to the point where many plants run the system 24 hours a day, 7 days a week, **XTRACTING** the maximum value from the investment year after year.

The key benefits being enjoyed every day by our customers include:

1. **100% recovery** of collected and processed glaze/slip.

XTRACT will turn your loss into profit from day one; we have over 15 years of proven recovery experience within the Sanitaryware and Tableware sectors.

2. **Recovered glaze/slip** exhibits the same particle size distribution as the virgin material and can therefore be added back to the process without any further intervention or processing.
3. **Retains** exactly the same **ceramic** and **rheological** properties as the virgin material.
4. **No chemicals** are used or added and no **mechanical intervention** is required following recovery by the XTRACT system.
5. **Rapid payback** of initial investment by the cost effective recovery of expensive raw materials. **12-18 month payback** is not uncommon!
6. **Assured** final product quality.
7. Single **fully automated** system.
8. **Total reliability.**



The Operational Benefits

XTRACT offers the customer the opportunity to reclaim up to 100% of the raw material within the captured waste stream by integrating an **XTRACT** system into the manufacturing process.

The **XTRACT** specialisation is the provision of an automatic system giving "precise density control" in a reliable and simple to operate single process. High reliability and low maintenance costs give high plant availability which is essential to the customer's process. Increasingly our customers manufacturing processes cannot operate without the **XTRACT** system in place.

The **XTRACT** Process can significantly reduce waste handling and processing through conventional and expensive waste water treatment process plant. The **XTRACT** system removes the necessity to discharge harmful constituents to drain and provides an assured quality of recycled water enabling its efficient re-use. The **XTRACT** system significantly improves the environmental standing and accreditation of any company employing its technology.

The Technical Benefits

- Consistent high quality product ready to be returned to the process.
- Raw material recovery to a controlled and consistent density.
- Retains full raw material properties.
- Consistent rheological properties retained.
- Raw materials can be returned to the virgin mix maximising raw material utilisation.
- No chemical or physical intervention required to reuse the material.
- Eliminates the RISK of producing variable quality product
- One single and controllable process.
- Fully automated, reducing technical and personnel input

The Financial Benefits

- Lower raw material inventory and purchasing costs.
- Total recovery of valuable raw material that has previously been lost to waste.
- No consequential costs associated with poor quality reclaim such as re-firing, re-working or total loss of product at the production stage.
- Conserves expensive water and energy resources
- Significantly reduces or eliminates the challenge to a conventional waste water treatment plant.
- Significantly reduces or eliminates the cost of treating effluent, reducing labour, chemical, energy, repair & maintenance costs.
- Eliminates the increasing cost of waste disposal and avoids environmental penalties



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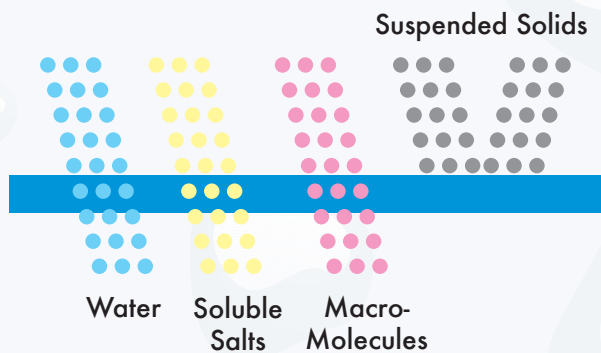
The Technology

XTRACT has developed its **recovery technology** through close collaboration with a UK based ceramic filter manufacturing company. This has resulted in an **enabling filtration technology** unique to XTRACT and its customers.

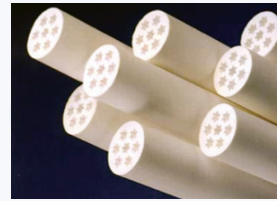
The unique filter technology is combined with sophisticated and elegant control over the filtration process that is fully **automated** and **totally reliable**, resulting in a raw material recovery system that becomes **indispensable** to the production and operational process Management.

XTRACT filtration technology is:

- A consistent **ceramic separation** technology delivering a controlled density filtrate.
- Based on a **chemically inert** filtration media.
- A sophisticated, elegant, automated and reliable **recovery process**.



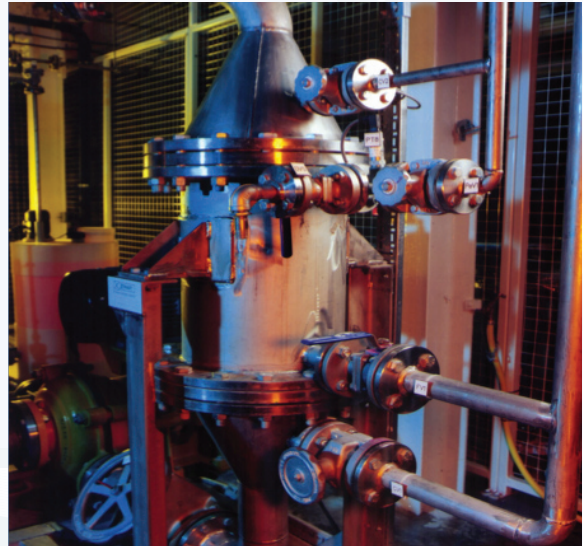
Components of the System



Filter Elements



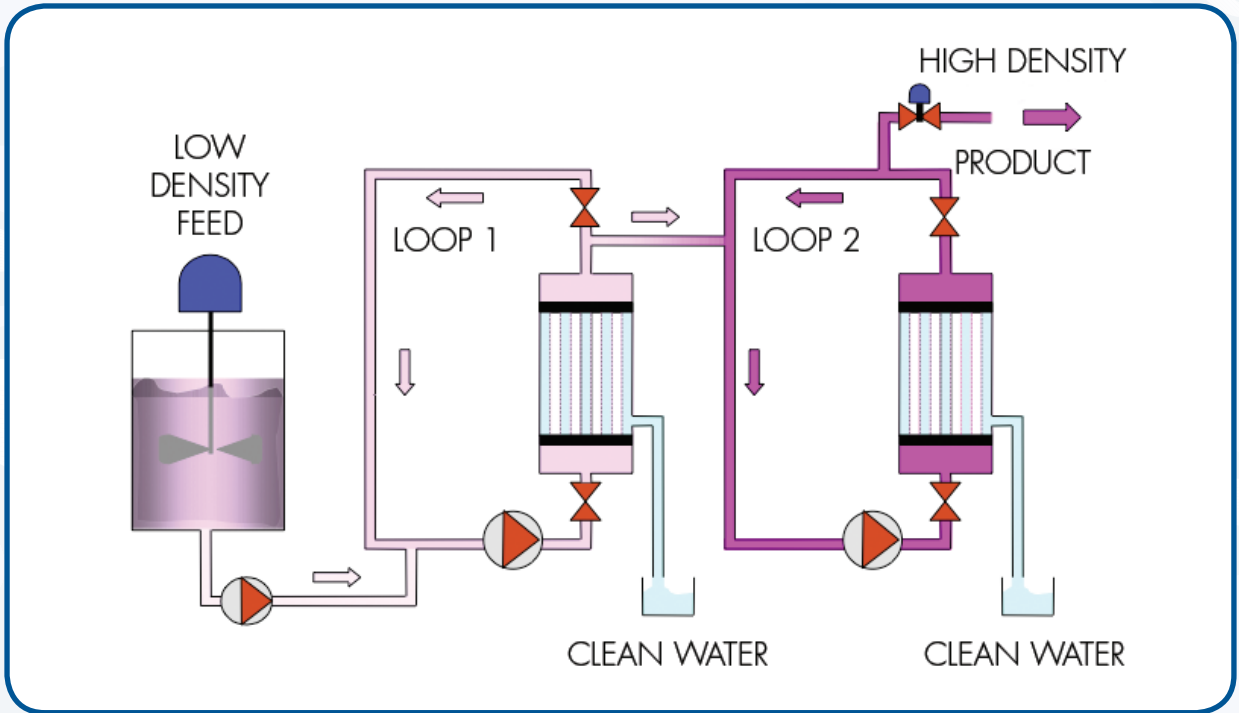
Filter Housing



Filter Module



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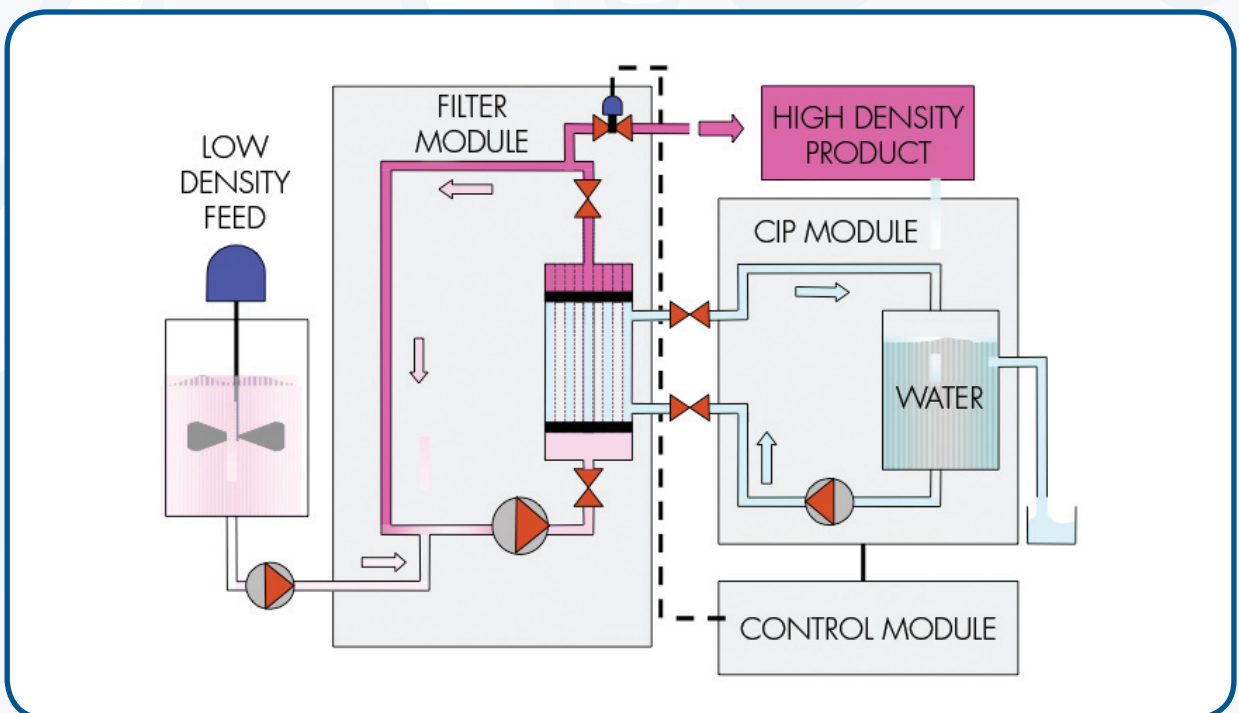
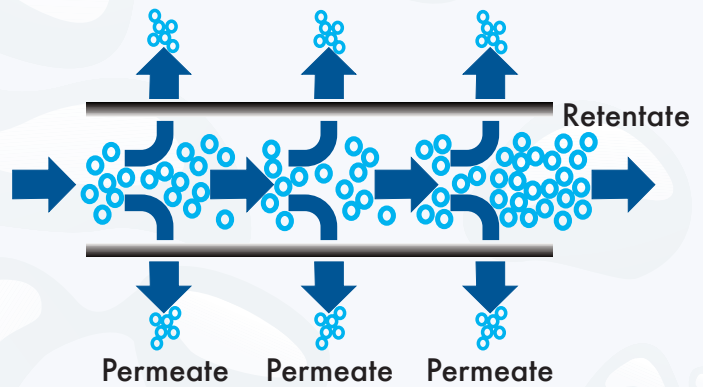


XTRACT – The Process

Single and 2 stage filtration loop designs to **maximise throughput** and “**control the density**” of the filtrate.

Automatic ‘**Cleaning in Place**’ procedure to maintain reliable and stable flux conditions.

Totally ‘**modular construction**’, increased capacity without excessive cost penalties.



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Financial Options

Capital Purchase

Rental Purchase – 5 Years +

Short term hire

Fully costed Pilot plant trials for financial justification.



XTRACT – The Opportunity

- Achieve the highest levels of submicron raw material recovery and utilisation.
- Acquire a fully integrated, automated and cost effective raw material reclamation system.
- Operate a modern reclaim facility with little operational, technical or financial risk.
 - Efficient use of raw materials
 - Up to 100% raw material utilisation
 - Eliminate water wastage
 - Eliminate or significantly reduce the challenge to the effluent treatment plant
 - Reduce plant labour costs
 - Make significant Health and Safety improvements
 - Endorses environmental policy – with cost benefit
 - Endorses quality policy – with cost benefit
 - **Turns operating cost into profit**



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Achieve the highest levels of submicron raw material recovery and utilisation.

100% recovery of collected and processed feedstock.

Raw material recovery to a controlled and consistent density.

Lower raw material inventory and purchasing costs.

Eliminate or significantly reduce the challenge to the effluent treatment plant

Eliminate water wastage

Assured product quality.

Single fully automated system.

Total reliability.

Turns operating cost into profit



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