



PURESEP

Purification Filtration Separation



Water Treatment Solutions for the Food and Beverage Industry



Puresep – A Total Solutions Provider

Puresep provide industry leading water, waste water and process filtration solutions using sophisticated technology backed by expertise and service to the food and beverage market, where water is a critical component in the manufacturing process. As a result of the extensive use of water, the food industry's primary concern is that water and wastewater is handled in the most cost-effective method and reused in whatever capacity possible to reduce costs. Major blue chip companies have set strict water efficiency targets and deadlines.

It is our goal to help our customers solve complex challenges related to water availability and quality, to increase productivity, reduce costs and help meet environmental regulations and sustainability targets, through innovative solutions that deliver consistently reliable performance at the best lifecycle cost.

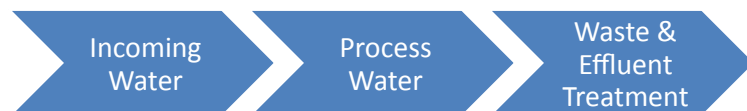
Cutting edge, award winning technology and knowledge to meet your challenges

Puresep are your single point of contact for all your in-house water treatment and filtration needs. We design, build, install and operate complete systems; with in-house expertise and experience helping you select the safest, highest quality, most cost effective solution to meet your requirements giving you greater productivity, efficiency and profitability.

Our bespoke solutions help you to:

- Accelerate production
- Simplify operations
- Reduce downtime
- Reduce waste

End-to-end sustainable solutions.

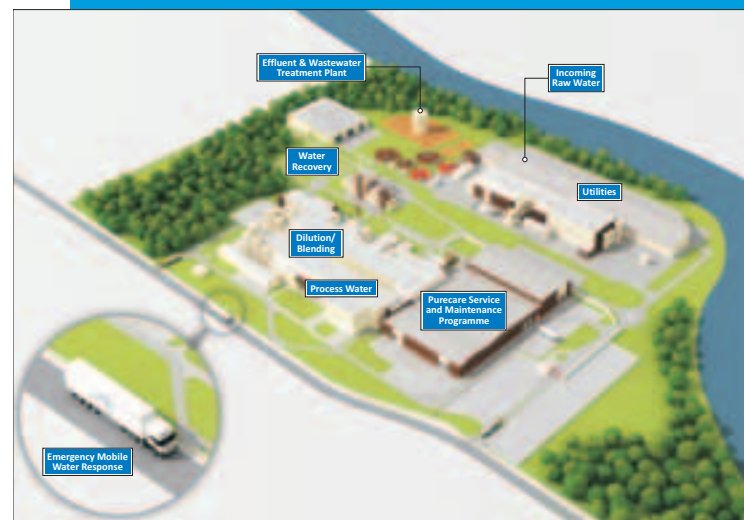


Our capabilities include:

- Process Filtration and Separation
- Incoming and process water treatment
- Ultrapure water production
- Water and Wastewater treatment and recycling
- High end consumables
- Range of 24/7 maintenance agreements
- Design Build Operate Options

Why work with Puresep:

- 1 Total Solutions Provider
- 2 End to End Water Solutions
- 3 Best Fit Technology
- 4 Lifecycle Cost Assurance Program
- 5 Design, Install and Commission Bespoke Plant
- 6 Nationwide Engineers Oncall 24/7
- 7 Up to 4 Hour Response Contracts
- 8 24/7 Telephone Support
- 9 Open Proactive Culture with "Can Do" Attitude
- 10 Environmental Technology Award Winners



Treating Incoming Water

It doesn't matter if the source of water is a well, river, or borehole, Puresep's solutions are designed to clean the water to your exact requirements. Whether the water in question is for processing, cleaning or as feed water for your boiler, we can purify water to suit your needs.

Treating and filtering water at the pre-treatment, or incoming stage is fundamental to the efficiency of the process further downstream. Raw water can be treated by a number of technologies, depending on the nature of your application, An appropriate combination of purification technologies can be used to provide water of your required quality both conveniently and cost-effectively:

- [Multimedia Filtration Solutions](#)
- [Carbon and Resin Re-bedding](#)
- [Ion Exchange & Demineralisation](#)
- [Cartridge Filtration](#)
- [Disinfection & Sterilisation including; PureChlor Chlorine Dioxide](#)
- [Membrane Technologies including; Ultra Filtration & Reverse Osmosis](#)



Process Water Treatment

As you move downstream into the process water treatment stage, further treatment and filtration processes are required, to ensure, consistency, sterility, shelf-life and clarity. It's at this stage that some process water used can be recovered for re-use – helping manufacturers achieve sustainability targets

These technologies include:

- Membrane Technologies including; CrossFlow Microfiltration
- De-Aeration Plant
- Cartridge Filtration
- Disinfection and Sterilisation including: PureChlor Chlorine Dioxide

Envirogen Response - Mobile Water Treatment Solutions

Puresep offers a large fleet of mobile water treatment systems across Europe, providing rapid response for a full range of water treatment and filtration solutions including: reverse osmosis, filtration, demineralisation, softening, and deoxygenation treatment on demand. Mobile water treatment is available for emergency, supplemental, or extended term service.

Puresep can supply high-quality water treatment systems for all kinds of temporary needs along with system analysis and design through to installation, maintenance, upgrades, and emergency response. Included are immediate system backup and support, along with in-house regional service engineers available 24/7.

Why a mobile water treatment solution might be the perfect solution:

- Production continuity
- Meet changes in production demands and required water quality
- Save time and cost on repair projects and new plant
- Guaranteed water quality and quantity
- No outlay of capital investment
- 24/7 service back up and support including where required remote access to the plant



Wastewater and Effluent Treatment Solutions



We understand that raw water is a scarce resource yet is a vital ingredient and critical factor in food and beverage production and manufacturing. At Puresep, we have a thorough understanding of the challenges of wastewater treatment, and understand the pressure food and beverage manufacturers are under to reduce their usage and to reduce their costs.

Puresep offers a suite of technologies to treat the dirtiest of water. Water cleaned can then be reused or safely discharged, thus reducing your environmental impact. Where required and for more complex situations, Puresep can integrate a variety of technologies into a comprehensive solution that sits alongside your process manufacturing plant.

Our Wastewater solutions are extensive and include:

Conventional Wastewater Treatment

- Flow balancing & pH correction
- DAF (dissolved air flotation)
- Physio-chemical treatment
 - Coagulation & sedimentation
 - Direct filtration



Advanced Wastewater Treatment

- MBRs (membrane bioreactor)
- Anaerobic & Aerobic treatment
- FBR (fluidised bed reactor)
- SCR (suspended carrier reactor)
- Recycle Water Systems
- Rinse Water Recovery

Waste Water Treatment Solutions

- Effluent and Process analysis
- Trunkey system Design
- Technology Neutral
- Waste Water Re-use
- Pilot and Consultancy Services
- Design Build Operate Finance Options

Design, Build, Operate, Lease and Finance Options

At Puresep, we understand that by far the most important – and often the most expensive part of a treatment system installation is the operating cost over its 10-20 year life. If the long-term operating costs of a system are not properly considered along with the invested capital, the system may not achieve the efficiency or financial performance originally expected of it.

Our Finance Options provide a totally flexible solution to help our clients purchase the best technology now and spread the cost over the equipment's life, ensuring you get the water and wastewater treatment solution best suited to your needs rather than what budget dictates

Benefits:

- Predictable and guaranteed costs for the lifetime of the asset
- Less or No up-front capital cost required for effluent treatment investment freeing up cashflow
- Guaranteed performance, repair, maintenance costs, and regulatory compliance
- Risk protection via performance and cost guarantees
- Improved budget management (avoid unbudgeted cost)
- Cost-effective access to industry specialists
- Continual process improvements
- Environmental and sustainable obligations met
- Add to bottom line profit and enjoy ROI immediately

21st Century High End Filtration and Water Treatment Consumables

With production and process costs constantly being driven down yet optimal performance a must, process specialists need consumables that offer high efficiency performance and low operating cost.

Whatever the filtration or separation need, Puresep's consumable range can suit any food and beverage application. When budgets are tight, cost effective reliable suppliers are essential. Much of our consumables are kept in stock and can be supplied within 24hours from placement of order.

We supply:

- Envirogen Filter Cartridges : depth, membrane, pleated, carbon, capsule
- Filter Sheets
- Chemicals
- Seals
- RO Membrane replacements
- UV lamps
- Hydraulic Filters

Critical Quality Control

Every product supplied is quality control checked, tested and guaranteed to international standards giving the peace of mind and assurance you need, accredited to ISO 9001, ensures the highest quality and standards are consistently maintained.

Benefits of the Puresep Consumable Range:

- Comprehensive Range
- One Supplier
- Next Day Delivery
- Long Service Life
- Cost-Effective and Efficient
- Technical Assistance
- Local Support and Service
- European Manufacturing Centre



PureCare Service – Help the way it should be; uncomplicated, fast, competent

At Puresep we understand that your filtration and water treatment plant needs to be operational 24 hours a day 7 days a week, as problem-free as possible, working at its peak performance. Choosing the right Service and maintenance agreement is critical to ensuring maximum uptime.

Our in-house fully trained engineers, located nationwide offering around the clock support, ensure our high standards are always maintained. Our response time means onsite response, with telephone support available 24/7. Our engineers are equipped with the latest technology giving customers instant information providing faster access to recommendations, spare part supply, support and billing data. Replicated to the web, customers can log on to a personalised web page to can look up historic information.

Our range of PureCare service and maintenance agreements give our customers flexibility to choose the level of support required depending on application, operation and budgetary requirements, whether it's Puresep plant or from another supplier

PureCare Standard

Planned Service and Preventative Maintenance to keep your system running efficiently – call out is usually onsite within 48 hours.

PureCare Priority Response

As PureCare Standard, but the onsite call out response time is guaranteed within 24 hours.

PureCare Priority Response Plus

As PureCare Standard, but the onsite call out response time is guaranteed with a choice of 8 or 24 hours. The annual consumable pack is included with reduced labour call out costs.

PureCare Ultra

As PureCare Standard, but the onsite call out response time can be a guaranteed choice of 4, 8 or 24 hours. The annual consumable pack is included, along with all parts and unlimited number of call outs.

Optimising Existing Plant - Upgrades, Overhauls and Refurbishment -

At Puresep, we constantly work to improve our process technologies to make sure they fulfil our customers needs for optimal efficiency, product quality, and safety regulations. But changes to legislation, or changes to internal requirements or new technologies can mean your existing plant is no longer at its optimum or achieving the desired results.

It is often the most cost effective solution to upgrade existing equipment and processes to improve production and meet business challenges. Our in-house, experienced engineers, can upgrade, refurbish, or overhaul your existing plant and implement new technologies quickly and efficiently.

Our services include, but are not limited to:

- Plant overhaul & modernisation
- Process optimization
- Replacement of obsolete equipment
- Upgrade to current standards, legislation and safety standards
- Control System and Instrument Upgrades
- Resin Replacements and Re-beds
- Plant relocation and re-commissioning

Benefits:

- Improve Performance
- Reduce Downtime
- Cost Efficient
- Enhanced plant operation and efficiency
- Increased Capacity



The Envirogen Group: Innovation, Engineering and Service for the 21st Century



Puresep Technologies is a division of the Envirogen Group.

At the Envirogen Group of companies, our vision is straightforward – to be the industry leading water, waste water and process filtration provider using sophisticated technology backed by expertise and service.

It is our goal to help our customers solve complex challenges related to water availability and quality, to increase productivity, reduce costs and help meet environmental regulations and sustainability targets, through innovative solutions that deliver consistently reliable performance at the best lifecycle cost.

The Envirogen Group brings expertise and knowledge through specialist business divisions across the globe, specialising in key markets, applications and products. With offices and manufacturing facilities in the UK, Italy and USA, and a regionally based team of engineers, Envirogen is well placed to respond to the needs of its customers.



UK Office:

Puresep Technologies
Bromyard Road
Trading Estate
Bromyard Road
Ledbury
Herefordshire
HR8 1NS
Tel: +44 (0) 1531 636328
Fax: +44 (0) 1531 634012
E: info@puresep.com
W: www.puresep.com



Italian Office:

Fluxa Filtri S.p.A
Viale De GASPERI, 88/B
20017
Mazzo di Rho
Milano
Tel: 02 93959.1
E: info@fluxafiltri.com
www.fluxafiltri.com



USA Office:

Envirogen Technologies
Two Kingwood Place
700 Rockmead Dr., Suite 105
Kingwood, TX 77339
Tel: 877.312.8950
E: info@envirogen.com
www.envirogen.com



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Puresep is a division of
Envirogen Water Technologies
www.envirogen.com