



# SERFILCO®

Chemical resistant pumps & filters engineered for industry

## SerPure CeraMol Molecular Filtration Media & Systems



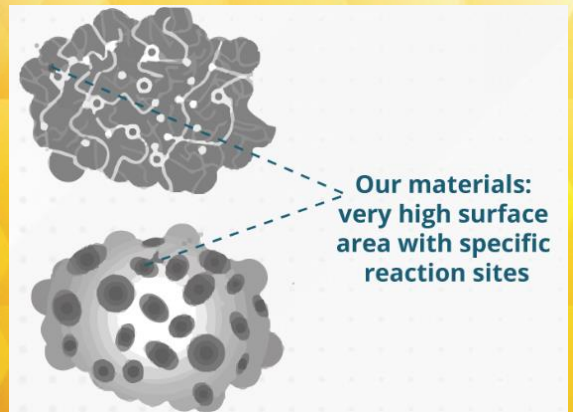
Removing Metals and Impurities to Achieve Compliance and Minimise Water Discharge.

### SERPURE INNOVATION

- Simple to use water treatment filter.
- Equipment with innovative ceramic media.
- Molecular filtration technology.
- Remove metallic ions and organics/COD.
- Cost effective media for single use.
- Media regeneration/reuse for larger installations.
- Add to existing water treatment sequence.
- Target specific waste-water rinses.
- Potential for water reuse.
- Meet discharge consent limits.
- Our solutions needs only 1 gram of media to purify up to 5 litres of water

### HOW?

- Ceramol filter media uses a chemisorption process to removes contaminants by means of adsorption, absorption, oxidation and chemical reaction.
- Special customized media can remove industrial pollutants and allow extraction valuable materials from rinses and wastewater.



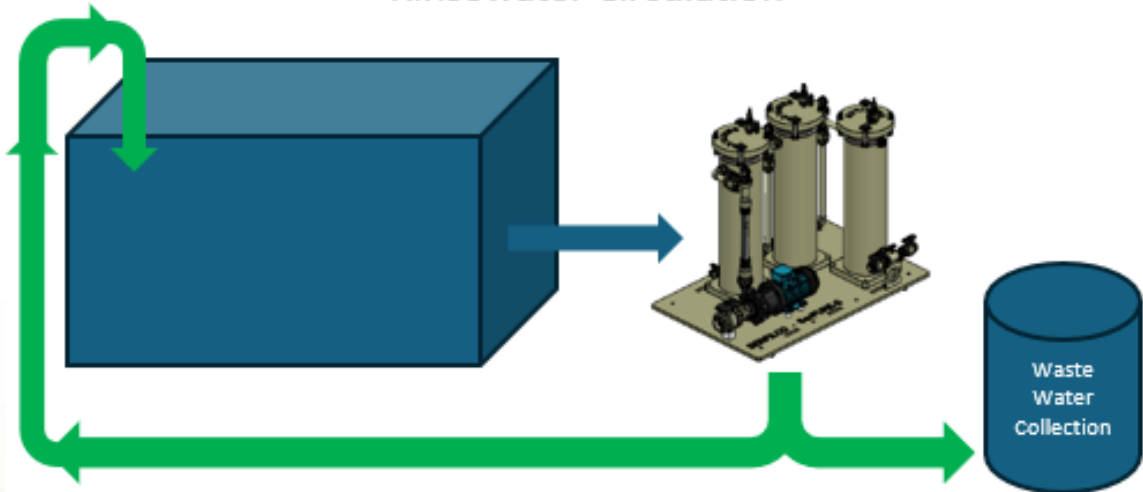
GLOBAL PRODUCTS, LOCAL SERVICE & ADVICE YOU CAN RELY ON



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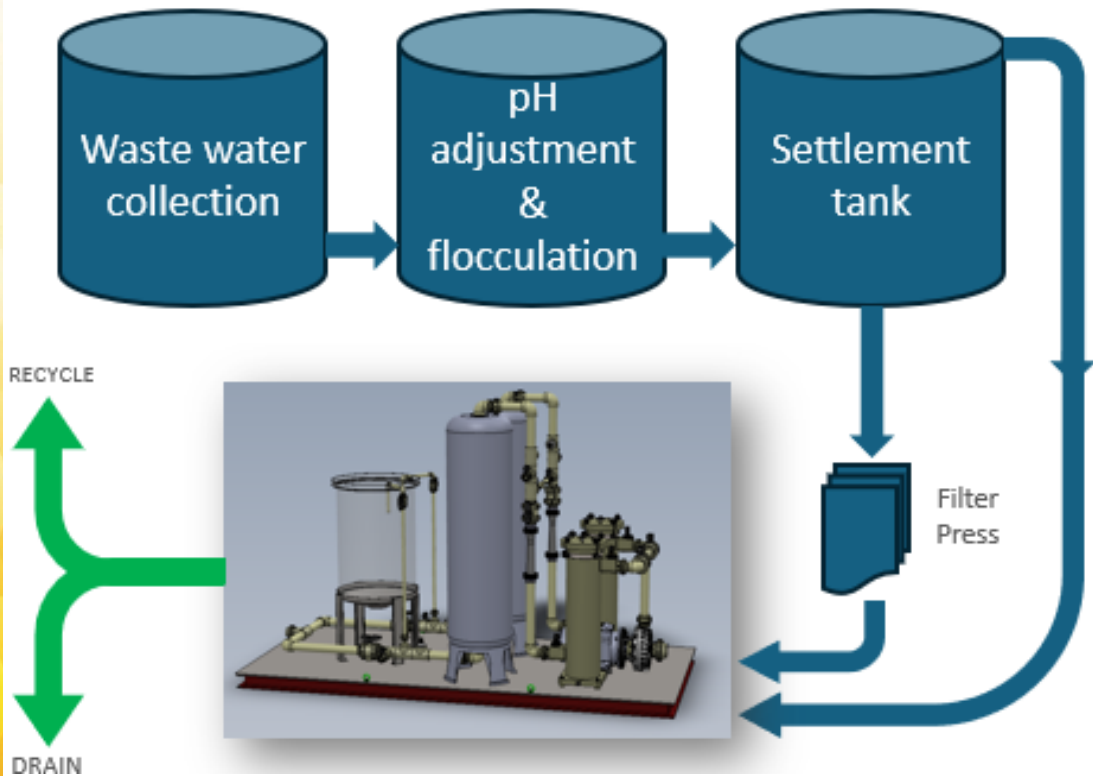
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## Rinsewater Circulation



Rinsewater with acidic, metallic, organic and anionic contaminants removed can be re-used or sent to waste-water treatment

## Post Waste-Water Treatment



Waste water with acidic, metallic, organic and anionic contaminants removed can be re-used in plant or sent to municipal drain within consent to discharge limits

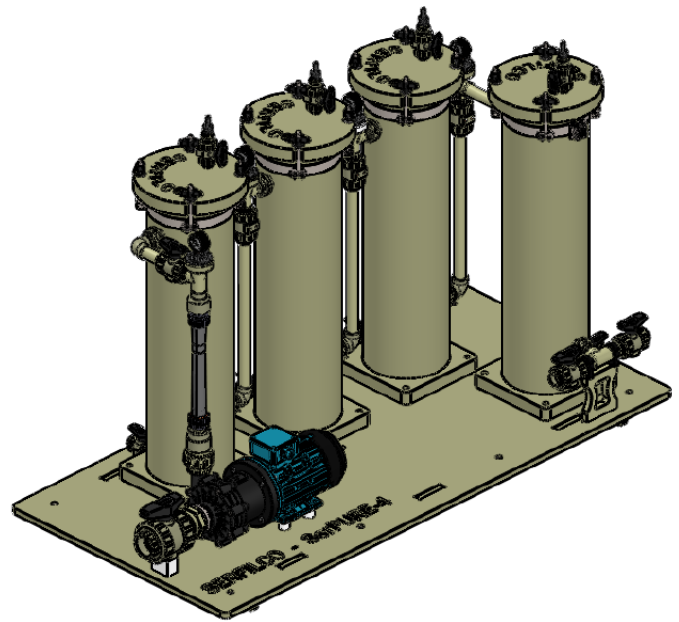


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## SERPURE Filtration Systems

- Two / Three / Four chambers
- Each chamber contains a maximum quantity of media (7-12kG approx. per chamber)
- Able to use in series, in parallel or as duty standby
- Mag-Drive Pump.
- Flow up to 72lpm.
- All PP construction.
- Standard units with VA Flowmeter, isolation valves and double discharge.



- Flows 3m<sup>3</sup>/hr to 59m<sup>3</sup>/hr
- Standard sizes 62kg / 112kg / 196kg.
- Air-purge system.
- Regen in place system.
- Mechanical sealed pump for flow.
- AODD for regen.
- Available in series and parallel.
- Available in FRP/PP or FRP/PVC/CPVC
- Standard units with VA Flowmeter, isolation valves and double discharge.

Consult sales for further options and configurations

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## Available CeraMol Media

Type	Description	Part Number
CeraMol-S	Acid Removal Media	01-8555-S
CeraMol-C	Recalcitrant COD & Organics	01-8555-C
CeraMol-M	Metal Removal Media (Cu, Ni, Cr, Zn, Sn, Pb, Cd)	01-8555-M
CeraMol-Al	Aluminium Removal Media	01-8555-Al
CeraMol-Fe	Iron Removal Media	01-8555-Fe
CeraMol-Cr	Cr3 and Cr6	01-8555-Cr
CeraMol-AN	Chloride, Fluoride, Sulphate, Nitrate, Phosphate	01-8555-AN

*Supplied in 45kG Drums*

## Typical SerPure CeraMol Filter Systems for Rinses

Model	Description	Code
SerPure-1	Single CeraMol Canister System	PPSPC1-SG10(80)-DM.5
SerPure-2	Bag Pre-Filter plus One CeraMol Canister	PPSPC2-SG10(80)-DM.5
SerPure-3	Bag Pre-Filter plus Two CeraMol Canister	PPSPC3-SG10(80)-DM.5
SerPure-4	Bag Pre-Filter plus Three CeraMol Canister	PPSPC4-SG10(80)-DM.5

All systems manufactured in PP, with EPDM elastomers, mounted on a common base and provided with:  
Magnetic Drive Pump, Variable Area Flow Meter, 32mm Interconnecting pipework and valves  
Media is held in re-useable PURE cannister each taking up to 10 kG of media  
Pump specified to deliver Flow rates of 3-8 lpm per kG of media  
Stage 1 Bag-Filter specified at 50µ

### Options:

- Paddlewheel Flow Sensor with integral transmitter
- Pressure Transducer with integral transmitter
- Offline regen station
- Additional canisters for continuous use
- Air connection for blowdown

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SERFILCO PURE Media Canister

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