

let us make your environment
a better place to be...
demand special treatment



the conder **MBR range** of package sewage treatment plants

packaged membrane technology treating to:
5mg/l BOD: 5mg/l SS: 5mg/l NH₃

- Leading edge packaged sewage treatment
- Incorporating advanced Kubota membrane technology
- Serving populations up to 5000 P.E.
- Effluent disinfected to comply with EU directives
- Effluent quality complies with WHO standards
- Ideal for sites where water reuse is at a premium
- Advanced environmental protection equipment to achieve quality discharges



Attenuation & Storm
Water Balancing



Class 1&2 Bypass & Full
Retention oil/water separators



Package Pump Stations

Plus:

- Double Wall Tanks
- Fuel Tanks
- Cesspools & Septics
- Rainwater Harvesting Systems
- Grease/Oil Separators
- Bucket Lift Elevators
- Screenpack CSOs
- ConderCell Modular Storage
- Above Ground Engineered Vessels
- Sprinkler Tanks



ASP 6-20pe Package Sewage
Treatment Plant



NSAF 25-50pe



Techflo SAF 60-600pe
single-stream and
multi-stream up to 1800pe



MBR Membrane Technology
Package Sewage Treatment
Systems (up to 5000pe)



General Underground
Storage Tanks



For product enquiries, specification advice, project assessments
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TM – Techflo is a registered Trade Mark

TM – Clereflo is a registered Trade Mark



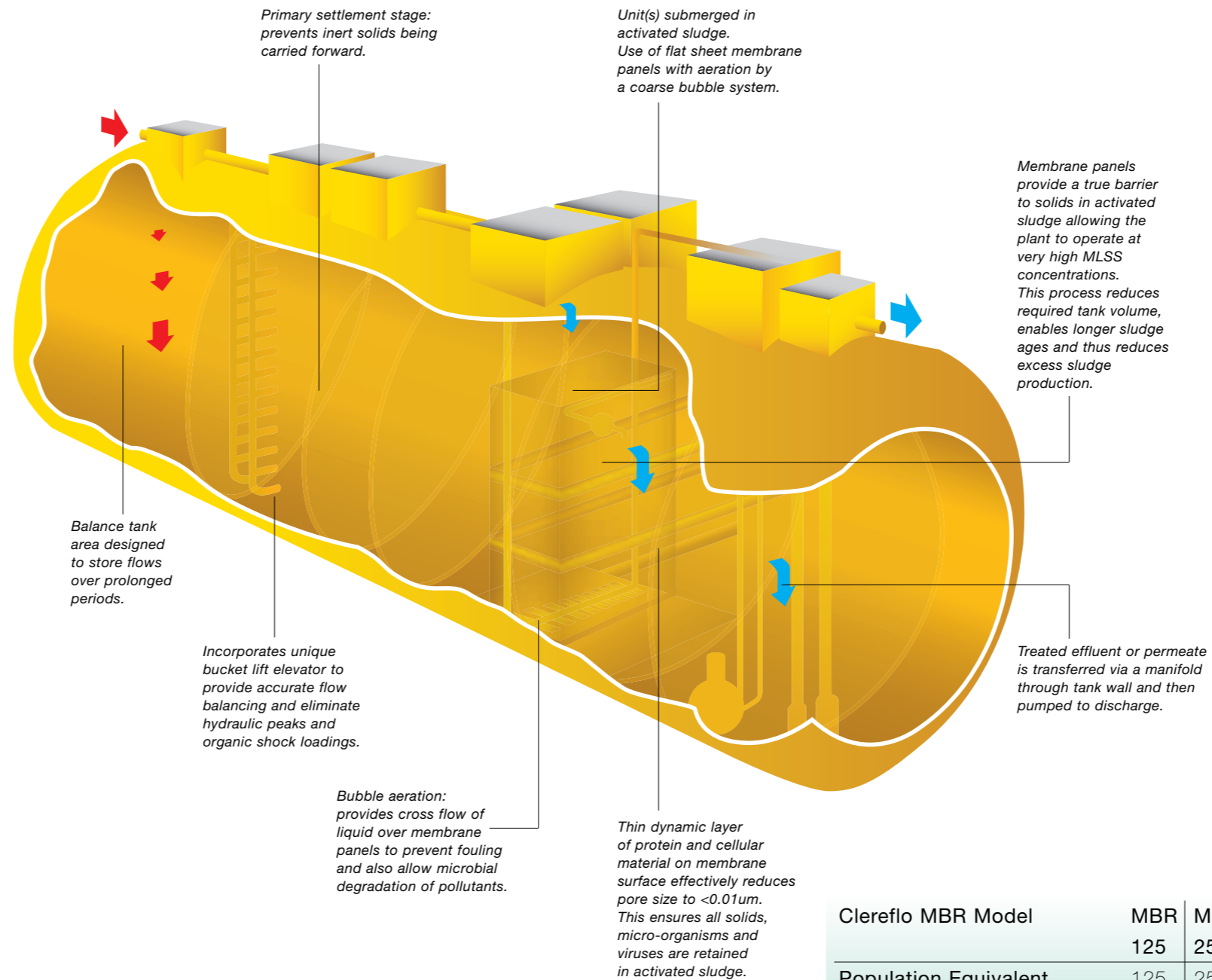
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CLEREFLO MBR

The Clereflo MBR is a below ground packaged sewage treatment plant that incorporates the KUBOTA Membrane Bioreactor (MBR) process. KUBOTA membrane technology combined with Conder sewage treatment expertise ensures the Clereflo MBR offers exceptional performance and quality assured manufacture, plus unrivalled and reliable treated discharge results.

THE PROCESS

- There are three treatment stages within the Clereflo MBR: (1) flow balancing using a bucket lift elevator, (2) primary settlement, separation of gross solids, (3) biological treatment in the membrane bioreactor
- This final stage uses flat sheet membrane panels, housed in units, and aerated by a coarse bubble system. Membrane units are situated in the activated sludge chamber providing a physical barrier to ensure good solid/liquid separation
- Effluent flows through the membrane from outside to inside, and the liquid head above the unit drives the flow and generates all the pressure required
- The discharged effluent produced using the Clereflo MBR plant is of a quality that allows the effluent to be reused in a variety of applications. The quality produced is less than: 5mg/l BOD: 5mg/l S.S.: 5mg/l NH₃
- There is also a 4 log reduction in viruses and a 6 log reduction in bacteria
- The effluent complies with the World Health Organisation (WHO) qualification criteria for unlimited irrigation
- The Clereflo MBR also meets and exceeds some of the most stringent discharge standards in the world - therefore treated effluent can be reused for irrigation of golf courses and plants, woodlands and gardens
- Built-in nitrogen reduction option (TN ≤ 15mg/l)
- Phosphorous reduction option



FEATURES & BENEFITS

- Leading edge treatment to 5:5:5 standard
- Effluent meets EU Directive 76/160/EEC for bathing waters and Directive 72/923/EEC for shellfish
- Flat sheet membrane filtration technology approved by California Department of Health Services and complies with their water recycling criteria - Title 22
- Completely below ground installation, only the manhole access covers are visible on the surface
- May be installed under hard standing or car parking areas
- Shallow excavation with small footprint
- Cylindrical tank shape enables fast and cost-effective installation
- Easy operation with low maintenance requirements
- Full technical specification and installation support on every project from trained and experienced Conder team

Clereflo MBR Model	MBR 125	MBR 250	MBR 375	MBR 500	MBR 750	MBR 1000	MBR 1500	MBR 2000	MBR 5000
Population Equivalent	125	250	375	500	750	1000	1500	2000	5000
Loadings									
Hydraulic Load (FFT): m ³ /d	22.5	45	67.5	90	135	180	270	360	900
Organic Load: Kg BOD/day	6.9	13.7	20.6	27.5	41.2	55	82.5	110	275
Ammonia Load: Kg NH ₃ /day	1.0	2	3	4	6	8	12	16	40
Design									
Footprint Size m ²	22.5	36	52	60	80	100	150	200	500

Applications Include:

- Golf courses
- Garden centres
- Coastal discharges
- Environmentally sensitive areas such as SAC'S and salmonoid waters
- Ground water sensitive areas

