

Installations

- Fruit & Vegetable processing
- Live-stock & Poultry processing
- Manufacturing industries
- Minerals processing
- Municipal treatment
- Aquaculture
- Heavy vehicle wash plants

Clientele

- Small, medium and large water users
- Food MNCs include Fonterra, Nestle, Coca Cola, JB Swift and Tyson Foods
- Mining MNCs include Anglo Group, Xstrata and Peabody Energy
- Municipal clientele include Chevron, Shanks and Trility

baleen
engineered by nature

company

Baleen Filters Pty Limited has a broad depth of experience designing, building and commissioning resource recovery plants across Australia and overseas since 1999. A client portfolio of some 200-installations provides for technology validation across industry.

More than 15-years in the industry, Baleen offers water users the opportunity to realise operational cost base reduction (through Performance Contracting) or Nil-risk resource harvesting (through Design Build Own Operate Maintain financing) to provide a single source of accountability from start to completed installation

About Baleen

- Established in 1999
- Headquartered in Adelaide, South Australia
- Three time Top 50 Global Water Technology Company Award-Winner
- Multi-National client base growing annually
- Full feasibility (ROI) study and alternate finance (hire, lease & BOOM) available

Contracting Record

- 200+ projects completed internationally
- Typical ROI measured in months
- Broad industry experience & success record
- Expert training in operation & maintenance
- International service networks in place
- Zero litigation in 15+ years client service

Baleen in Action



background

Micro-Screening in Process water & Waste water applications

Solids handling often accounts for as much as one-half of the costs associated with the treatment and disposal of waste water. However, the recovery of solids (including reclamation of water) as available resources can provide significant economic return whilst improving the safety, maintenance and reliability of plant operations as a whole.

The Resource Recovery Model for waste water is not complicated; improved water quality (as a result of solids removal) can provide improved compliance or re-use opportunity, and the recovery of sludge for onsale opportunity either as reclaimed product (in the case of raw materials, fuel and minerals) or byproduct (in the case of foodstuff, nutrients and biodigestables).

A unique filter/separator originally from the University of South Australia, known as Baleen, recovers the 'waste' from 'waste water' for economic and environmental benefit, and reclaims 'water' for 'fit for purpose' re-use or recycle. Benefits include minimising environmental impact, capturing product losses and enabling zero discharge opportunities.

Irrespective of source, Baleen may be employed 'stand-alone' or in collaboration with other technologies to realise near absolute resource recovery for dramatic return on investment.

Treatment processes that benefit from Baleen include:
water recycling, grit and rag removal (inlet works), clarification (primary and secondary), odour suppression, flotation (upstream load reduction or downstream polishing), sludge thickening, zero discharge (through sludge purging), outfall polishing, membrane filtration (upstream protection or backwash dewatering), centrate recovery and fines beneficiation.

Baleen can be used as a single step to realise agricultural, mining and industrial water reclamation and/or waste recovery opportunity.

Examples include fruit & vegetable packing where Baleen's in-process washwater recycling can deliver water-savings as high as 95%.

When coupled with flocculation, the resultant 'clarification' of filtered water often enables 'fit-for-purpose' water recovery opportunity. Examples include meat, poultry, dairy and small community effluent treatment plants where end-of-pipe clarification can deliver energy-savings as high as 95%.

In many other cases, Baleen delivers environmental footprint-savings often as high as 95%.

Technology Features

- Internationally patented and awarded
- Genuine non-blinding self-cleaning capability
- Robust & flexible install options available
- Easy to operate and maintain
- Low operating costs & operator involvement
- No backwash streams produced
- Selective Separation and Variable Dewatering

Technology Applications

- Selective solids separation
- Near 100% fine grit removal from Inlet works
- Sludge thickening & Desliming
- Overflow polishing
- Zero discharge
- Marine protection
- Water reclamation
- Loss recovery from ore beneficiation circuits
- Lagoon avoidance and/or odour mitigation
- Regulatory compliance

product range

Baleen comes in five (5) flow capacities ('05, '10, '20, '40 and '60 Series units), across three (3) design formats; retro-fit, tank-mountable and stand-alone to suit individual requirements.

There are also four (4) control-operating modes; slave (onboard controls only), standard (ancillary support, single filter), basic (fully-monitored, single filter) and advanced (fully-featured, multiple filter).

BALEEN FILTER PORTFOLIO			
SERIES	TURNKEY	USER INSTALL	STAND ALONE
'05	 BALE05	 B0505S	 05W05C
'10	 BALE10	 B1010S	 10W10C
'20	 BALE20	 B2015S	 20W15C
'40			 B4015S
ANCILLARY CONTROLS	 PU(S)	 PCU(B)	 PCU(A)

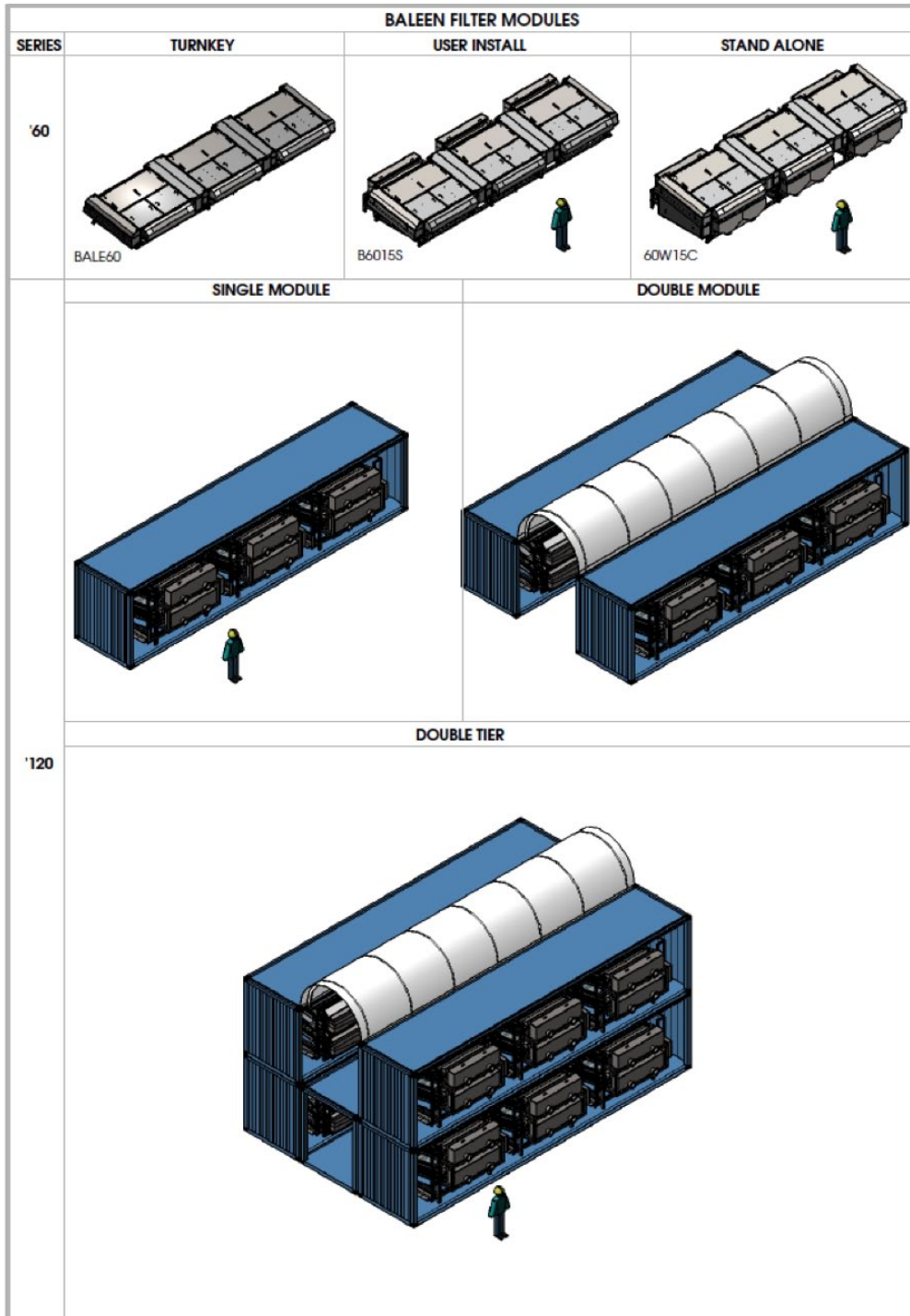
Awards Received



Product Features

- FAT certified, ready-to-install products
- 'Connect and Use' options
- Interchangeable woven filter-screen media
- Remote-monitoring for full auto-operation
- Detailed design (PFD, P&ID) and 3D modelled

Additionally, the '40-Series filter provides for fully integrated, containerised plant layouts ('120, '240 and '480-Series modules) for ready deployment in remote or large flow applications.



contact

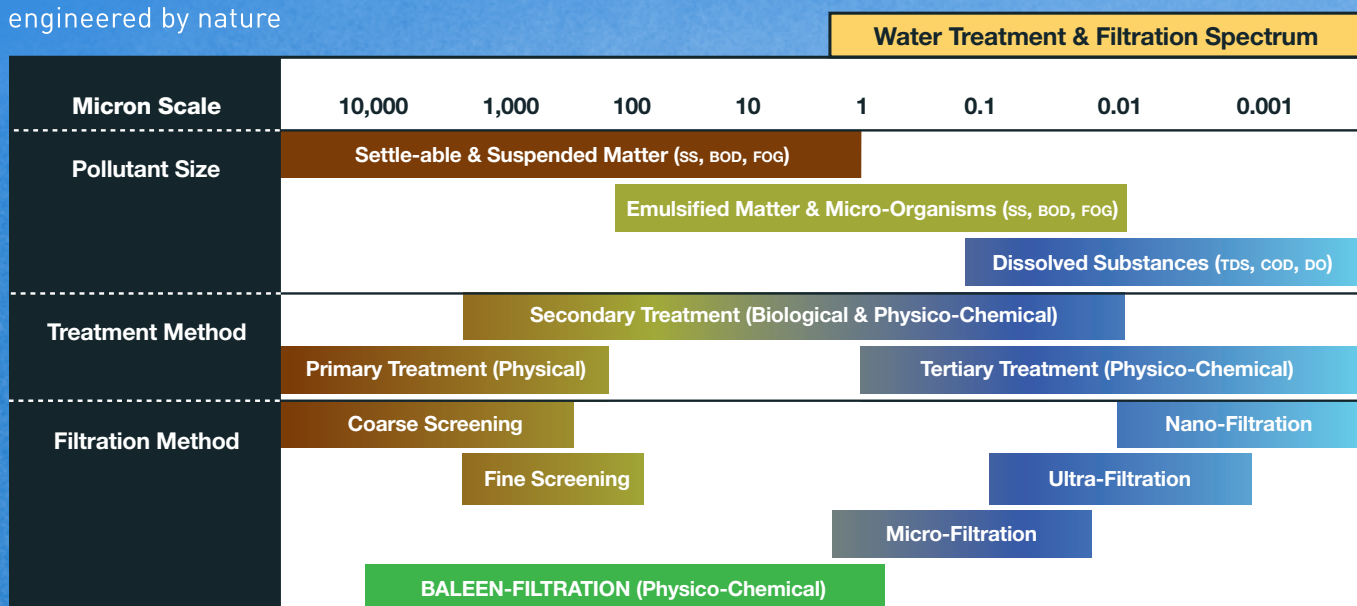
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Water Recycling made Simple Engineered by Nature Internationally Awarded

