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Baleen can be applied to virtually any industrial or municipal waste stream for the removal of suspended contaminants. The filter technology conforms to international design standards for a various applications.

Waste stream characteristics (in terms of SS, FOG and particle size distribution) vary significantly with industry origin, which in turn impacts on flow handling capability at a particular micron rating. Filter selection is therefore based on flow handling requirements, effluent loading, septicity (or age of effluent) and installation requirements.

A range of Baleen products and options are available. An authorized Baleen representative is able to select the most suitable filter system to meet individual requirements.

Process Considerations

Insurance screening upstream of Baleen is recommended, particularly where the waste stream contains constituents larger than 10 to 15 mm in size.

In many instances only a suitably sized balance tank upstream of Baleen is required. The tank also acts as a buffer volume to 'even out' variations in waste stream composition and irregular flow situations.

Solids separated using Baleen are typically collected in a 'mesh-lined' collection skip for ready dewatering. Provision for filtrate drainage from the solids collection skip is recommended.

For high flow rate applications or for highly concentrated waste streams proper consideration needs to be given to automated solids handling and its management.

Civil requirements

Baleen must be installed and operated on a level surface and mounted on a concrete slab or other similar support structure, fixed in place by hold down bolts.

Allowance for general lifting and site movement by forklift is required.

For ease of operation and maintenance it is recommended that a 1.5 m access corridor (or applicable standard) be provided around the unit prior to installation.

A suitable shelter is recommended for protection against harsh environmental conditions.

Operating Specifications

Ambient and Local Air temperature	-5° to 60° C
Operation	24 hours per day
Minimum Filter media lifetime	3 to 5 years
[longest serving filter has been in full time operation since 1997 using original components]	
Filter mass (dry)	200kg to 1000kg
Filter mass (wet)	300kg to 1600kg





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Maintenance Requirements

Periodic onsite inspection of the filter is required

Onsite maintenance involves periodic inspection, cleaning and or lubrication of specific drive, pneumatic and hydraulic components.

Experience has shown that one to two visits per month with less than one hour per visit provides adequate time for maintenance of the filter technology.

Alternatively, remote monitoring using the highly automated control system design (optional) provides allowance for forecasting particular maintenance requirements.

Product Features

- Conforms to Australian & New Zealand National Standard for Plant (OH & S) regulations
- Conforms to International Engineering Standards
- Manufactured to ISO 9002 Quality standards
- No permanent staff required on a daily basis.
- Easy to operate and maintain
- Easy access for maintenance
- Expandable for future design requirements
- Very Low maintenance and part replacement costs
- Spare parts available internationally (refer to local Baleen representative)
- Operating cost typically less than US\$2.50 per ML of filtered water
[based on replacement parts (fair wear and tear only) amortised over 5 years].

All units are manufactured from 304 SS materials as standard.

All units come with a standard twelve-month International Parts & Labour warranty.

Pre-fitted standard filter media is available from 35 to 250 micron.

Product Options

- 316SS upgrade of 304SS materials and components
- CAF module option (for DAF plant alternative)
- Advanced Control system upgrade
- Pump module option (Baleen modules only)
- Baleen 'Solids' collection skip
- Multiple unit integration, parallel (high flow) or series (selective separation) configuration
- Alternative filter media material (e.g. Monel, food grade polymer) and/or micron rating

Please contact Baleen Filters for product updates and options.

