

PR SILT SEPARATOR

Water Clarification System



KEY FEATURES & BENEFITS

- Designed to meet the rigours of the construction industry
- Fast and simple setup
- Small footprint but large settlement area
- Out perform conventional settlement tanks and lagoon up to 20 times their plan area
- Units can be linked together to handle a range of flows, pump sizes and particle characteristics
- No power requirements
- No moving parts making the unit virtually maintenance free
- Reduce the risk of silt pollution for discharge to watercourses
- Reduce the risk of blocking sewers
- Reduce off-site trade effluent disposal costs
- Reduce the risk of breaking discharge consents

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The PR Water Clarification system is a major improvement over the construction industry's standard approach of using holes in the ground, straw filled skips or ineffective settlement tanks.

The PR Water Clarification system removes fine particles from water including silt, raw cement fines and other solids allowing treated water to be discharged off site in an environmentally friendly process.

PR Power have a comprehensive range of Water Clarification, Water Filtration and Water Treatment systems available for sale or rental, depending on the application.

For more information on our range of equipment, contact our office today on **1300 399 499** or visit our website at www.prpower.com.

APPLICATIONS

INDUSTRY	APPLICATION
Construction	▪ Pumping and dewatering
	▪ Groundwater treatment
	▪ Site run-off treatment
	▪ Site water management
	▪ Drilling, piling & coffer dams
	▪ In-river and near-river works
	▪ Desilting and dredging
	▪ Plant, vehicle & wheel washing
	▪ Sewage and water treatment works
	▪ Hydro-demolition & diamond drilling
	▪ Materials washing & recycling
	▪ Roads, pipelines and other linear projects
	▪ Cement and mortar batching waste water
Environmental	▪ Carbon and sand filter pre-treatment
	▪ Light oil separation
Industrial Plants	▪ Mobile pilot units
	▪ Temporary water treatment plants

PARTICLE SIZE CHART

	Colloids	Clay	Silt			Sand			
			Fine	Medium	Coarse	Fine	Medium	Coarse	
Particle size (microns)	0.001	0.1	2	6	20	60	200	600	2000
Settling velocity (m/hr)	Non Settling		0.013	0.1	1.3	11	96	400	1050
Settlement area required per m ³ /hr of flow (m ²)	Infinite	Infinite	80	9	0.8	0.1	0.01	0.003	0.001
Conventional Settlement Tank	[Bar chart showing infinite area for colloids and clay, and very high area for fine silt]								
PR Silt Separator	[Bar chart showing significantly reduced area for all particle sizes]								
PR Silt Separator + Flocculant	[Bar chart showing further reduced area for all particle sizes]								
PR Silt Separator + Chemical Pre-Treatment	[Bar chart showing the lowest area requirement for all particle sizes]								

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