

CLEARPRO

construction water solutions



Equipment Hire Catalogue

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WATER TREATMENT PLANTS

Clearpro's mobile water treatment plants provide the next level in portable water treatment system performance. These state-of-the-art, custom built water treatment systems autonomously control pH and turbidity levels through controlled chemical dosing and settlement within the in-built clarifying tanks. Additional media filtration or sterilisation system add-ons are also available for applications requiring enhanced treatment. Clearpro systems can be equipped with offsite monitoring capabilities (telemetry) which allows for recovery of water quality data and automatic shut-down and alarm functions if water quality does not comply with the relevant criteria.



BENEFITS

- » Fast and simple set-up
- » Units are custom built and can be modified to suit a wide variety of applications and flow rates
- » Able to significantly reduce liquid waste disposal fees by discharging treated water to the stormwater system
- » Automated data recovery for compliance purposes

USES

- » Dewatering / groundwater treatment
- » Landfill leachate
- » Tunnel boring water treatment
- » Construction site water
- » Remote area potable water treatment
- » Contaminated site remediation
- » Pipeline projects



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LB15 WATER TREATMENT PLANTS

LB15 treatment systems come equipped with 4" in-line dosing systems and integrated 15,000L clarifying tanks. The systems are capable of treatment rates of up to 10L/sec with typical 'dirty water' flow rates of 3-4L/sec*. Management of pH is achieved by two-way proportional dosing of acid and alkali chemicals. Effective operation of the system will also lead to significant reductions in heavy metal concentrations. The systems can be fitted with optional solar power supply and battery storage to independently power controllers and dosing pumps. Also, included is a telemetry system enabling remote start/stop, data logging, alarm functions and complete offsite control.



*Specified flow rates dependant on inflow water quality, water chemisty and operator proficiency.

FEATURES

- » Automated pH control and floc dosing
- » Lockable chemical storage area
- » Tube settler clarifying tank
- » Enhanced settlement of suspended particles
- » Telemetry system enabling remote operation, data logging and alarm functions for water quality, flow and chemical level
- » Optional solar panel and battery system for controllers and dosing pumps
- » Fold down handrail and walkway
- » Sloping floor for easy removal of sludge



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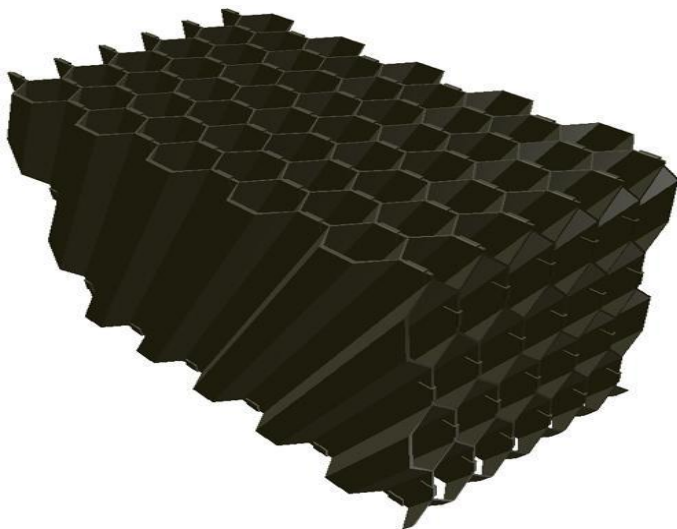
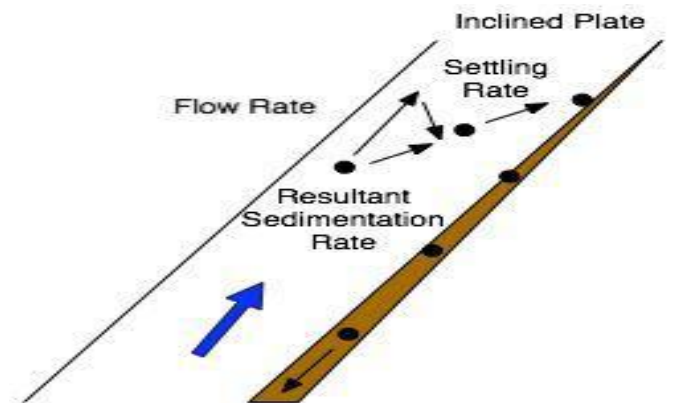
CLARIFYING/SETTLEMENT TANKS

Our 15,000L and 3,500L tube settler clarifying tanks are designed with sloping floors making cleaning fast and easy. The unique design of Clearpro's clarifying tanks enables them to operate at 2 to 4 times the efficiency of regular settlement tanks. Enhanced settlement rates are achieved by the angled hexagonal channels which provide both an increased settling area and decreased settling depth for suspended floc particles. The tube settlers operate by capturing fine suspended floc particles on the surface of the tube where they agglomerate to become larger floc particles which slide down the tube and accumulate in the bottom of the tank.



FEATURES

- » Sloping floor for easy sludge removal
- » Fold down handrail and walkway (15,000L systems only)
- » Tube settler modules for enhanced settlement of suspended particles
- » Multiple sized inlets and outlets for flexibility across a variety of applications
- » Small footprint to volume ratio



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AUTOMATED pH CORRECTION SYSTEMS

Clearpro's patented pH correction systems automatically control water pH levels by accurately dosing either acid or alkali chemicals as required to maintain a neutral pH. All units are custom made and can be modified to suit a wide variety of applications and flow rates.



FEATURES

- » pH controller and sensors
- » Optional turbidity sensor
- » Telemetry system enabling remote operation, data logging and alarm functions
- » Chemical dosing pumps
- » Solar power supply
- » Custom housing

APPLICATIONS

- » Construction site dewatering
- » Concrete plant wash water
- » Industrial sites
- » Groundwater treatment
- » Mine sites
- » Acid sulfate soil treatment
- » Temporary or permanent installations



'FLOC BOSS' AUTOMATED SEDIMENT BASIN DOSING SYSTEM

Clearpro's automated sediment basin dosing system provides accurate flow proportional flocculent dosing across a wide flow range. The dosing accuracy of the 'Floc Boss' system leads to significant chemical savings and more consistent results when compared to conventional methods. All systems are custom made and can be modified to suit a wide variety of applications and flow rates.



FEATURES

- » Flow proportional dosing
- » Low chemical consumption
- » Optional telemetry system enabling data logging and alarm functions
- » Solar power supply
- » Simple installation for temporary basins

APPLICATIONS

- » Type A,B,C,D sediment basins
- » Construction sites
- » Mine sites
- » Quarries
- » Temporary or permanent installations



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