Siltbuster®

HIRE, SALES & TECHNICAL SUPPORT

Call: 01600 772256

enquire@siltbuster.com

Concrete Washwater Treatment System (The RCW)

Siltbuster's new RCW Concrete Washwater Treatment System has been specifically designed to handle the wash-water from lorry mounted concrete chutes, crane and tele-handler skips and concrete/grout pumps.

Siltbuster's new RCW unit is perfect for the treatment of concrete and mortar wash water

Waste concrete and wash water is discharged into specialist dewatering bags at the front of the RCW unit

Key Features

• ***BATTERY POWERED or MAINS OPERATION***
Can be operated by either 12V battery or 110 Volt electricity supply and comes complete with its own battery charger as standard.

• ***SPACE SAVING INTEGRATED TREATMENT***
Combines solids removal and pH adjustment in a single integrated unit.

• ***BEST PRACTICE pH ADJUSTMENT***
Innovative Carbon Dioxide dosing system provides simple but effective pH adjustment - no more need for the storage or use of acid on site.

• ***COMPACT DESIGN***
Suitable for use on small sites and remote locations.

How it works .....

Stage 1 - Solids/Liquid Separation

Waste concrete washed off lorry chutes skips etc. is discharged into specialist geotextile dewatering bags located in the twin reception chamber at the front of the unit.

Solids and cement fines are retained in the bag and allowed to hydrate whilst the bleed water seeps through the bag fabric into the main chamber for pH adjustment.

Stage 2 - Automatic pH Adjustment

Bleed water enters the main treatment chamber and undergoes automatic pH adjustment using carbon dioxide to reduce the pH to a preset limit (typically between 6 and 9) before being released to sewer, water course or discharged to ground, subject to consent.

The disposal of waste concrete, mortar and untreated alkaline waste water (which have a pH ranging from 10 to in excess of 12) contravenes most Environmental Management Systems and may breach Environmental Legislation. The RCW provides the solution.

The Innovative RCW unit from *Siltbuster*.....

..... Helping you meet today's Environmental Challenges

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Transportable | Modular | Affordable

Ideal for treating waste water from:

- Washing out of *Concrete and Grout Pumps*
- Washing out of *Lorry Mounted Concrete Chutes*
- Washing out of *Crane & Tele-handler Chutes/Skips*
- Onsite *Concrete and Mortar Batching Plants*
- Concrete pours in Urban *& Remote Rural Locations*

pH Controller, Battery Charger and Control System

The RCW unit accepts standard gas bottles

The Benefits of Carbon Dioxide

The use of carbon dioxide to neutralise the highly alkaline water has several key advantages over the traditional approach of using concentrated acid for pH adjustment :

1. Neutralisation is more easily controlled reducing the risk of the pH of the treated water becoming too acidic (less than 6.5)
2. Health and Safety concerns are reduced, plant operators are not required to work with strong acids
3. Decommissioning of the treatment system is simplified. In a traditional system excess acid would need to be disposed of as a hazardous waste whereas partially spent carbon dioxide cylinders can be returned to the supplier.

Technical Specification	Model		
	RCW Unit		
	Length	Width	Height
Unit size	2.8m	1.9m	1.35m (excl. gas bottles)
Carcass material	Mild steel (EN10025 S275) shotblasted to min. SA2.5		
Surface protection	2 Pack High Solids Anti-Corrosive Epoxy Primer; Modified Acrylic External Finish Units supplied in RAL5001 Blue as Standard, other Colours to Order		

For more information on how Siltbuster Limited can assist with waste concrete handling, waste water treatment and pH adjustment of alkaline water call us on 01600 772256 or email : enquire@siltbuster.com