

FLOCCULANT DOSING UNIT RANGE



Optimize your operations and cut costs with our Flocculant Dosing System - precision-engineered for reduced consumption and real-time control.

AGGREGATES



RECYCLING



SANDS



WATER MANAGEMENT



FLOCCULANT DOSING UNIT RANGE

CONTAINER LAYOUT



- Containerised option provides additional space for wash plant and water management controls (model dependent)

- Optional fully lined and insulated 20 or 40 ft container.
- Integral heating and lighting.
- Site ready, pre-wired and pre-plumbed for faster installation.

- Lockable doors for additional site security.

- Mono dosing pump with stainless steel rotor and nitrile rubber stator.
- VSD control achieves accurate control flocculant dosing rate.
- Electronic flow meter



- Stainless steel two or three tank construction provides clean, non-reactive surfaces for flocculant preparation.
- Tank mixers to insure a completely homogenous mixture is achieved.
- Sensors for automatic top up controls

- Optional belt driven air compressor
- Provides compressed air for operation of pneumatic control valves

- PLC panel controls the floc preparation and dosing, automatic dosing system and opening and closing of thickener discharge valve.
- Intuitive HMI controls.
- Diagnostic mode.
- Totalizer for floc usage per day for accurate running costs
- Remote login capability to aid in commissioning



- Feed hopper provides storage for dry powdered flocculant.
- VSD controlled feed auger for accurate dosing of powder.
- Low level warning
- Options for low lever floc powder fill conveyor

- Optional centrifugal booster pump and accumulator.
- Maintains required top up water flow rate and pressure.
- Electronic flow meter

Model pictured: FDU5000

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Dosing Control Unit (DCU)



Periodically a sample of flocculated dirty water is taken from the dirty water feed pipe at the top of the thickener tank

The Settling rate is measured by an optical sensor fitted between a glass tube

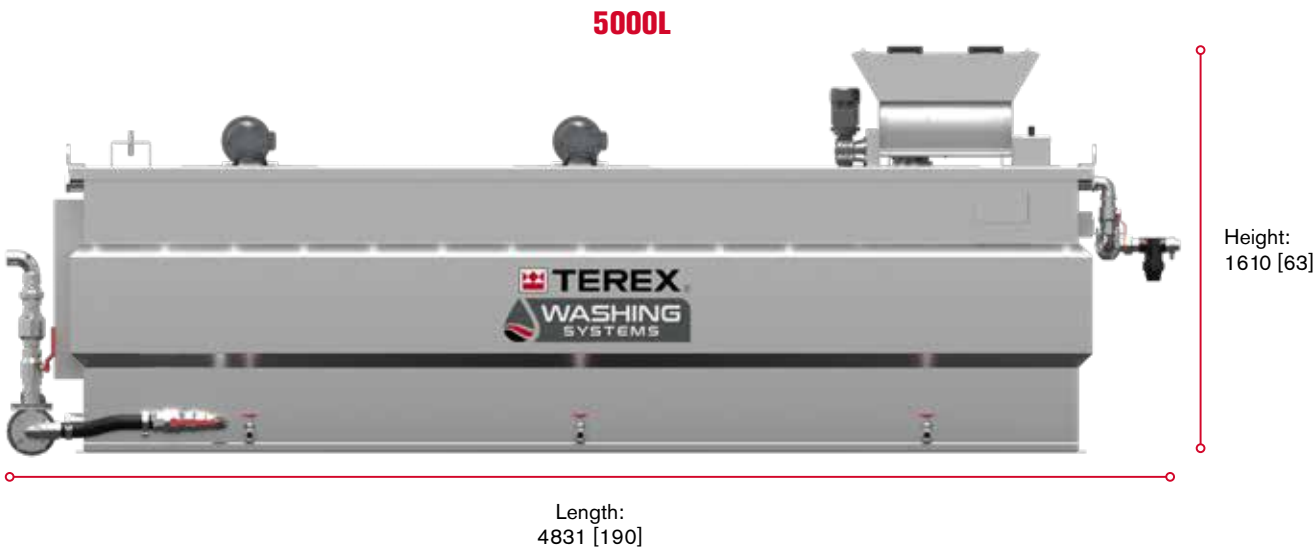
The PLC Controller on the floc dosing unit uses this information to automatically adjust the speed of the flocculant dosing pump in order to optimize the efficiency and consumption of the flocculant.

TECHNICAL SPECIFICATION



- Fully PLC controlled
 - Ultrasonic tank level monitoring
 - Full stainless-steel construction
 - Low flocculant warning
- Flow meter
 - Optional automatic dosing system
 - Optional flocculant hopper heater

DIMENSIONS



Machine Model	FDU 1800L	FDU 3000L	FDU 5000L	FDU 7500L
Length	1.38M	2.84M	4.1M	5.5M
Tank Finish	Brushed Stainless	Brushed Stainless	Brushed Stainless	Brushed Stainless
Hopper volume	55L	65L	65L	70L
Level sensor	Ultrasonic	Ultrasonic	Ultrasonic	Ultrasonic
Floc mono pump KW	0.75KW	1.1KW	1.5KW	2.0KW
Tank steel thickness	3MM	3MM	3MM	3MM
Construction	304 S/S	304 S/S	304 S/S	304 S/S
Power requirement KW	3KW	4KW	5KW	7KW
Clean water required	1M3	3M3	5M3	7M3
Mixer(s) KW	0.75KW	0.75KW	0.75KW	0.75KW
Number of mixers	1	2	3	4
Solids tonnage in dirty water TPH	6 TPH	7-20 TPH	21-30 TPH	31-38 TPH

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**DEDICATED TO WASHING,
DEDICATED TO YOU**



TEREX WASHING SYSTEMS

FARLOUGH SITE

32 Farlough Road,
Dungannon,
Co. Tyrone,
Northern Ireland, BT71 4DT

Tel: +44(0) 28 8771 8500
Email: TWS.sales@terex.com

www.terexwashing.com  

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