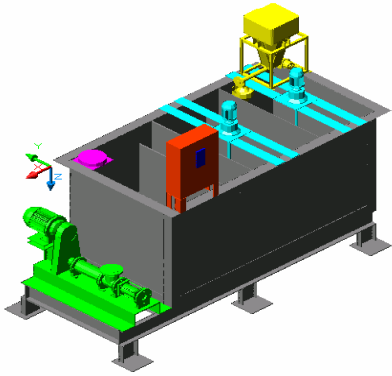


Flocculent Make-up - "Econo-Series"

"Affordable solutions to automated polymer preparation"



APPLICATION:

The "Econo Series" Polymer units are used for the preparation, hydration and dosing of powder or liquid flocculants. A robust design makes it a highly effective and competitive in mining, process, pulp and paper, water treatment and underground applications.

BENEFITS:

- Fully Automated.
- Very low operational costs.
- Limited maintainable items.
- Accurately sized components.
- Maximum efficiency of polymer.
- Hydration times of 3 ½ hours min.
- Flexible concentration parameters.
- Low transport and installation costs.
- Short and prompt commissioning times.
- In-house engineering and manufacturing.
- Compatible to powder polymer and liquid latex.
- No excessive energy or shearing during make-up.
- User friendly faultfinding and operational manual.
- Standard units from 200g/Hr to 6kg/Hr. to choose from.
- Easy to change configuration and set-up parameters.

FEATURES:

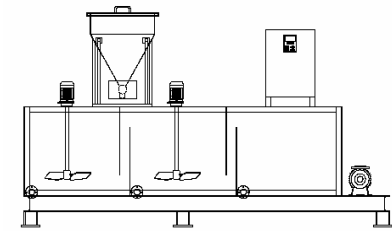
- Pre – Engineered unit.
- Robust steel construction.
- Stainless steel screw feeder.
- Correctly sized stirrer and pumps.
- Positive displacement dosing pump.
- Interlock protection for all critical components.
- Minimum of IP55 protection on all components.
- Skid mounted for ease of installation or re-location.
- Conversion between Liquid and Powder polymers possible.

OPERATION:

1. Low level in dosing chamber initialises the make-up cycle.
2. Correct amount of polymer is added to the make-up chamber.
3. Flocculent is agitated to ensure adequate mixing.
4. Prepared batch is moved to a hydration chamber on next cycle.
5. Based on plant demand flocculent is pumped to the process.

CONTACT US AT:

Tel No.: +27 (0) 82 803 8410



ECONO-FLOC SYSTEMS - MODEL 00 to MODEL 04



Model 00

0 to 250 g/hr

Plant consumption (Kg / Hr.)	0.250
Flocculent make-up concentration(%)	0.15
Dosing rate (Liter / Hour)	166.67
Hydration rate (Hours)	4.00
Calculated make-up rate (L / Hr.)	1166.67
Aging Volume	666.67
Make-up Volume	333.33
Dead Volume (150 mm)	100.00

Live tank volume (M ³)	1.00
Dosing pump size (M ³ /Hr.)	0.20
Water supply (M ³ /Hr.)	3.50
Water pressure (Bar)	3.50
Power supply (Max. Amp)	15.00
Required hopper holding volume (L)	12.00
Plant dimensions (L * B * H)	3m x 1.5m x 2m

Model 01

0 to 375 g/hr

Plant consumption (Kg / Hr.)	0.375
Flocculent make-up concentration(%)	0.15
Dosing rate (Liter / Hour)	250.00
Hydration rate (Hours)	4.00
Calculated make-up rate (L / Hr.)	1750.00
Aging Volume	1000.00
Make-up Volume	500.00
Dead Volume (150 mm)	150.00

Live tank volume (M ³)	1.50
Dosing pump size (M ³ /Hr.)	0.30
Water supply (M ³ /Hr.)	3.50
Required hopper holding volume (L)	18.00
Plant dimensions (L * B * H)	4.5m x 1.5m x 2m

Model 02

0 to 750 g/hr

Plant consumption (Kg / Hr.)	0.750
Flocculent make-up concentration(%)	0.15
Dosing rate (Liter / Hour)	500.00
Hydration rate (Hours)	3.50
Calculated make-up rate (L / Hr.)	3500.00
Aging Volume	1750.00
Make-up Volume	875.00
Dead Volume (150 mm)	262.50

Live tank volume (M ³)	2.63
Dosing pump size (M ³ /Hr.)	0.60
Water supply (M ³ /Hr.)	3.50
Water pressure (Bar)	3.50
Power supply (Max. Amp)	15.00
Calculated hopper delivery rate (g/Min)	262.50
Required hopper holding volume (L)	36.00
Plant dimensions (L * B * H)	3.5m x 3m x 2.5m

Model 03

0 to 1500 g/hr

Plant consumption (Kg / Hr.)	1.500
Flocculent make-up concentration(%)	0.15
Dosing rate (Liter / Hour)	1000.00
Hydration rate (Hours)	3.50
Calculated make-up rate (L / Hr.)	7000.00
Aging Volume	3500.00
Make-up Volume	1750.00
Dead Volume (150 mm)	525.00

Live tank volume (M ³)	5.25
Dosing pump size (M ³ /Hr.)	1.20
Water supply (M ³ /Hr.)	3.50
Water pressure (Bar)	3.50
Power supply (Max. Amp)	15.00
Calculated hopper delivery rate (g/Min)	525.00
Required hopper holding volume (L)	72.00
Plant dimensions (L * B * H)	4.5m x 3m x 3.5m

Model 04

0 to 3000 g/hr

Plant consumption (Kg / Hr.)	3.000
Flocculent make-up concentration(%)	0.15
Dosing rate (Liter / Hour)	2000.00
Hydration rate (Hours)	3.50
Calculated make-up rate (L / Hr.)	14000.00
Aging Volume	7000.00
Make-up Volume	3500.00
Dead Volume (150 mm)	1050.00

Live tank volume (M ³)	10.50
Dosing pump size (M ³ /Hr.)	2.40
Water supply (M ³ /Hr.)	3.50
Water pressure (Bar)	3.50
Power supply (Max. Amp)	15.00
Calculated hopper delivery rate (g/Min)	1050.00
Required hopper holding volume (L)	144.00
Plant dimensions (L * B * H)	5.5m x 3.25m x 3.5m

SYSTEMS ABOVE 3000 g/hr is custom-designed

Photo: Typical plant showing workmanship and quality.
Capable to design, manufacture and cold-commission systems in-house.

