



AUTOMATED FLOCCULANT PLANTS



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Flocculant Plants

The Delkor Fully Automatic Flocculant Plant is designed to work in conjunction with the thickener control system to minimize the amount of flocculant being used. By optimizing flocculant consumption Delkor can dramatically lower the overall operating expenditure of the thickener – payback period can be a matter of just a few months.

Delkor using its 30 years experience in the thickener business has developed a flocculant plant that not only caters for the wide range of process conditions that arise within a thickener but requires minimal input for maintenance and operation. Using the design parameters and potential future requirements, Delkor engineers optimize the design of the wetting head, hydration and transfer time as well as providing a control philosophy that is both effective yet robust.

The Delkor Flocculant Plants are individually designed to suit each customers needs. We can design plants from 1kg/day up to 10,000kg/day and have designed plants that use salt water as the solvent. A lot of effort has been made to make these units modular which allows for simple installation on site as well as lowering the cost of transportation to site.

The typical Delkor Flocculant plant consists of the following:

- Powder Storage Hopper
- Screw Feeder
- Blower
- Wetting Head
- Preparation Tank
- Positive Displacement Pumps
- Dosing Tank
- Air Agitator/Mixer
- Dosing Pumps
- Control Instrumentation including Flowmeters, Level Devices, Valves
- Control System

Powder Hopper + Bag Holder (Auto systems only)

Fabricated in Mild Steel (ASTM A-36), with a flanged base for a knife gate isolation valve. The powder hopper includes a cover plate with a grid for addition of dry powder. The hopper is fitted with a low level switch to provide indication of an empty tank. A 0.37 kW powder hopper stirrer is provided to minimise bridging at the tank outlet and to break lumps.

The powder hopper can include a frame to support the standard 1 ton “Super Sacks”: The frame will be in Mild Steel and be designed to hold the sack above the hopper. The sack outlet will rest on the inlet to the powder hopper forming a seal to prevent spillage. A roof structure and hoist can also be included as an option.

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MANUAL FLOCCULANT PLANTS



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The Delkor Manual Flocculant plant gives clients the opportunity to have Delkor flocculant plant knowledge and quality at a lower cost basis. The manual plant provides the same quality product but with the requirement of additional operator assistance.

Often used in smaller plant operations or when flocculant consumption is small – the manual flocculant plant is a proven, low cost design. With sizes from 0.1kg/hr up to 20kg/hr and a simple skid mounted design – it is both simple to transport and easy to install on site.

With dozens of Delkor Manual Flocculant plants worldwide - we can tailor a flocculant plant to suit your application.



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For further information, contact your regional Delkor office.

americas@delkorglobal.com
europa.cis@delkorglobal.com
centralasia.nthafrika@delkorglobal.com
subsahara.africa@delkorglobal.com
asia.pacific@delkorglobal.com

