

SMALL FLOCCULANT MIXING PLANT

The small solid grade flocculant mixing plant is designed to produce dilute flocculant solution from granular powder for use in separating support fluids or other solids-contaminated liquids in civil engineering applications. The system efficiently mixes a known quantity of powder with water in the FEEDER unit, which then falls into the FLOCTANK-S mixing tank below for continuous agitation and aging until ready for use. The dilute flocculant is typically used alongside a centrifuge to treat waste fluids by separating solids from liquids. The dilute flocculant would normally be dosed in to the centrifuge feed line by a positive displacement, variable speed, peristaltic pump. The size of pump required will depend upon the site requirements.



TECHNICAL DATA

FEEDER powder discharge:	Up to 1.25kg/minute of free flowing granular powder.
Screwfeeder:	2" x 18" auger coupled to motor driven (0.25kW) reduction gearbox with direct on line starting and mechanical speed variator.
FLOCTANK-S volume:	Up to 12m ³ .
FLOCTANK-S agitator:	Vertical shaft agitator complete with 3 No. stirring blades and powered through a speed reducing gearbox by a 1.1kW 4-pole direct on line started motor.
Transport size:	1 No. unit at 6058x2438x2591mm (1CC container size), complete with ISO corner castings.
Weight (dry):	FEEDER module at 3 tonnes, FLOCTANK-S at 4 tonnes.
Operating weight (wet):	Up to 25 tonnes.
Operating size:	5465mm (L) x 2650mm (W) x 5200mm (H).
Access to FLOCFEED module:	Via external staircase or adjoining centrifuge platform.
Power:	1.5kW installed power running at 380-415V, 50Hz, 3 phase and earth (no neutral required). Minimum of 12m 2.5mm ² x 4 core H07 flex fitted with 400V 32A 4 pin plug.
Estimated running current:	4A per phase.
Estimated starting current:	21A per phase.
Noise emission:	74 dB at 5m.