

FLOCCULANT MIXING PLANT

The solid grade flocculant mixing plant is purpose built for the production of dilute flocculant from granular flocculant powder. The dilute flocculant is used for the separation of support fluids or other solids contaminated fluid used in the civil engineering industry. Designed to efficiently mix the granular powder with water in the FLOCFEED unit and agitate the mixed solution in the FLOCTANK unit, until aged and ready for use. Typically the flocculant mixing plant would be used with a centrifuge to destroy waste fluid by separating all solids from the liquid. The dilute flocculant is produced in batches, using the water holding tank on the FLOCFEED unit, adding a known quantity of flocculant powder to a known volume of water.



TECHNICAL DATA

FLOCFEED powder discharge:	Up to 1.25kg/minute of free flowing granular powder.
FLOCFEED water holding tank volume:	Up to 6m ³ .
Screwfeeder:	2" x 18" auger coupled to motor driven (0.25kW) reduction gearbox with direct on line starting.
FLOCTANK volume:	Up to 20m ³ .
FLOCTANK agitator:	Renold WMV6 vertical shaft agitator with 3 No. stirring blades powered by 4kW 4 pole direct on line started motor.
Transport size:	2 No. units each 6058x2438x2591mm (1CC container size), complete with ISO corner castings.
Weight (dry):	FLOCFEED module at 6 tonnes, FLOCTANK at 6 tonnes.
Operating weight (wet):	Up to 43 tonnes.
Operating size:	6058mm (L) x 3105mm (W) x 5200mm (H).
Access to FLOCFEED module:	Via external staircase or adjoining centrifuge platform.
Power:	6kW installed power running at 380-415V, 50Hz, 3 phase and earth (no neutral required). Minimum of 12m 4mm ² x 4 core H07 flex fitted with 400V 32A 4 pin plug.
Estimated running current:	7A per phase.
Estimated starting current:	57A per phase.
Noise emission:	74 dB at 5m.