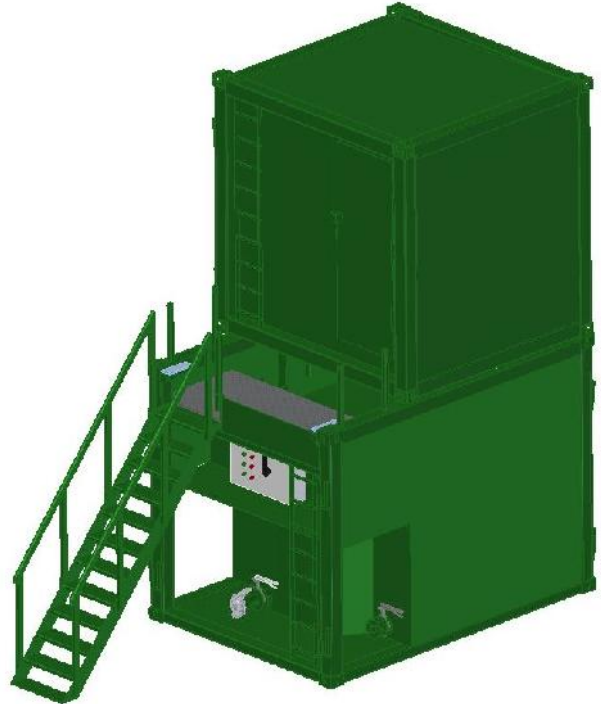


## SMALL FLOCCULANT MIXING PLANT

The SMALL FLOCCULANT MIXING PLANT is a purpose built compact unit for the mixing of anionic, cationic or non-ionic solid grade polymers with water for use as flocculants. This unit is specifically designed for use in the flocculation of active muds, waste muds, contaminated bentonite muds and other process fluid applications.

The plant consists of a 12m<sup>3</sup> capacity flocculant mixing tank with a single vertical shaft agitator powered through a speed reduction box by a 1.14kW electric motor with DOL starting and a solid grade flocculant feeder unit.

The flocculant feeder unit houses a stainless steel hopper, which will hold the contents of a standard 25Kg sack of polymer. This hopper discharges to a screw feeder driven by an electric motor through a mechanically variable speed gearbox. The feeder discharges the solid grade polymer at the required rate in to a water stream fed by mains water where the grains of polymer are wetted before they fall under gravity in to the mixing tank below. The flocculant feeder module is constructed with a heavy duty hollow section frame with corner twistlock castings for ease of handling. The overall transport size of the system is 2624x2438x2591mm high.



The flocculant mixing plant is designed to mix solid grade polymer flocculants with water to provide dilute solutions. The dilute flocculant would normally be dosed in to the mud flowline by a positive displacement, infinitely variable speed, peristaltic pump. The size of pump required will depend upon the processing requirements and centrifuge selected.

The flocculant feeder unit and the flocculant mixing tank unit are close coupled for transport so that the combined transport length of the two units is 6058mm thereby enabling the combined unit to be shipped and handled as a standard 20' type 1CC freight container.

### TECHNICAL DATA:

**Electrical:** The unit requires power at 415V, 50Hz, 3-phase and earth. The unit is supplied with a 15m power cable. It is recommended that a generator of at least 35KVA capacity be used to run this unit. The unit does not have earth leakage protection. Power consumption is as follows:

Item	Power	Starting current	Running current
Screwfeeder	0.25kW	6A	4.0A
Agitator	1.1kW	17A	2.5A
50mm Peristaltic pump	5.5kW	81A	11.5A
25mm Peristaltic pump	1.1kW	17A	2.5A

**Overall size:** For transit: 6058x2438x2591mm high.  
 In use: 5465x2438x3200mm high including handrails and staircase

**Weight:** Dry for transit: FEEDER: 3 Tonnes FLOCTANK: 6 Tonnes.  
 In use: 18 Tonnes.

**Water Inlet:** 3" female Bauer connection.

**Fluid capacity:** Up to 12m<sup>3</sup>.