

SNF FLOQUIP

Leaders in polyelectrolyte preparation and dosing equipment



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FloQuip is the engineering division of SNF (UK) Ltd, the world's largest manufacturer of synthetic polymers and coagulants used in water, effluent and sludge treatments.

We use our expertise to recommend the lowest cost of treatment for a wide range of applications in both the industrial and municipal sectors. Our Technical Department are able to evaluate a broad spectrum of polymer grades to ensure we offer the optimum product of choice. It is important that their recommendation is supported by offering a first class engineering support in the form of FloQuip Engineering Services.

Based at our head office in West Yorkshire our Engineering Department can work with the customer to design and build bespoke equipment for polymer make-up and dosing from manual, semi-automatic to fully automatic mode. We work with the customer to fulfil not only specific polymer make up requirements, but also, all aspects of the process including pH control, proportional flow dosing and polymer storage.

We provide servicing and maintenance of existing plant equipment to ensure process optimisation is guaranteed. Additional support can be offered in short or long term formal servicing contracts.



OUR PRODUCTS



AIRFLO

FloQuip have developed the AirFlo device to replace the conventional dry powder cone and venturi, which historically have been the cause of powder blockages, spills and noise emissions.

The AirFlo device has been designed to form an integral part of the powder polymer equipment screw feeder assembly and can be retro-fitted to many types of polymer preparation units.

The benefits of the AirFlo device are:

- SS316L Construction.
- Sealed unit preventing ingress of moisture minimising blockages and spills.
- Easy to maintain – no tools required.
- Large reduction in noise emissions.

POWDER POLYMER PREPARATION UNITS

These units been developed to provide a reliable, robust system for powder polymer batch make-up and storage. The powder polymer is metered via a fixed speed volumetric screw feeder into a moving stream of air. The powder polymer is then introduced into the water within the powder wetting device, where it

combines with the water and is transferred into the mixing tank. The resulting mixture is then agitated and aged to ensure dissolution. The batch of polymer solution is transferred on demand from the storage tank for dosing at the point of application.

EMULSION POLYMER PREPARATION UNITS

The EM range of automatic emulsion polymer preparation systems offers a 'tailor made' solution for polymer make-up. The units have been developed to provide a reliable, robust system for the preparation and storage of emulsion polymers. The neat emulsion

polymer is metered via a variable speed progressive cavity pump into a moving stream of water, where it is immediately fed into a high shear mixing pump to ensure effective and efficient mixing.

FLOMIX IN-LINE ENHANCED SLUDGE DEWATERING

FloQuip are continuously developing new systems, products and techniques to fulfil our policy to offer the customer the lowest cost of treatment. Polymer consumption is partly determined by how efficiently the polymer solution is mixed into the sludge. Full contact of the sludge particles with the molecular chain is essential.

If poor mixing is present 'overdosing' of the polymer solution will ensue to compensate. The FloMix In-Line Enhanced Mixing Unit provides efficient/effective mixing of polymer solution with the sludge.

The improved mixing can result in higher discharge cake solids and/or reduced polymer consumption.



COAGULANT DOSING SYSTEM

A proportional flow coagulant dosing system comprised of the following components all mounted on a stainless steel skid.

- Water pressure booster pump, water pressure accumulator and pressure transducer.
- 4 – 20mA driven positioning valve to control the water flow.

- Electromagnetic flow meter.
- Coagulant dosing pump.
- PLC controlled Local Panel.
- All pumps and pipework are located within splashguard enclosure.

CONTAINERISED POLYMER PREPARATION AND DOSING SYSTEMS

FloQuip have several different sizes of mobile containerised polymer preparation and dosing units. All containers are supplied with a side entrance door and are painted to your requirements upon provision of a RAL number.

Internally the steel container is insulated and is lined with hygienic uPVC cladding. The wooden floor is also covered with a specialised GRP, non-slip floor paint.

The unit is self contained given an external power and water supply and is also fitted with lighting, emergency lighting and heating (climate control can be fitted if required).

The polymer preparation and dosing unit equipment is fitted within the container unit.



OUR SERVICES



SERVICING AND MAINTENANCE

Our after sales support can be provided in the form of a periodic service or maintenance agreement. This will ensure the longevity of the polymer system and avoid expensive repair costs due to unforeseen breakdowns.

PARTS SALES

We can provide a comprehensive stock of spare parts for FloQuip equipment and our competitor's equipment at competitive prices.

EQUIPMENT HIRE

For short term usage FloQuip can offer a full range of polymer preparation and dosing systems for both emulsion and powder polymers. Our FloQuip trailer unit which is fitted with both emulsion and powder make up systems and can be hired for short and longer term trials.

TRAINING

FloQuip offer a comprehensive training program during commissioning, for the full range of polymer make-up and chemical dosing equipment that we manufacture.

DESIGN AND BUILD

Based on our expertise and experience of solid liquid separation technology we can offer a comprehensive design and build service. FloQuip can use this knowledge to ensure process optimisation and efficiency with regard to polymer-make up and dosing systems.



MANUFACTURE & SHIPPING

All FloQuip equipment is fully assembled and tested at our premises at Normanton, West Yorkshire. Following testing and completion of paperwork the equipment is either available for collection by the customer or FloQuip can carry out the delivery and offloading at the customers premises.

COMMISSIONING

FloQuip will work with our customer through every stage of development. From the drawing to the finished product we will ensure that the equipment meets specification, is competitive, and of a high standard of quality. Each unit will be commissioned on site before being handed over to the customer.



SNF FLOQUIP



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