FLOQUIP DE0
Emulsion Polymer Preparation System

DESCRIPTION
The FLOQUIP DE0 is a simplified polymer make-down system designed to dilute and activate emulsion polymers with water.

The neat emulsion is pumped from a drum, IBC or bulk tank using a variable speed pulse free pump. Then it is injected at the inlet of a highly efficient static mixer to initiate complete polymer inversion.

OPERATION
The FLOQUIP DE0 blends neat polymer and water, then delivers the resulting solution directly to your process or through an aging tank. The required flow of water is adjusted manually with the help of a manual control valve. The neat polymer pump delivers polymer through an injection check valve into the dilution water line at the inlet of a high shear static mixer. The high velocity and shear in the static mixer ensure the quality of the flocculant solution.

FEATURES
- Variable speed progressive cavity pump
- Stainless steel static mixer
- Adjustable water flow
- Electrical control of the dosing pump
- Stand-alone skid

BENEFITS
- Complete system
- Easy installation
- Small footprint

OPTIONS
- Maturation tank
- Dosing pump at the outlet of the maturation tank
- Filtration system

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DE 100</th>
<th>DE 200</th>
<th>DE 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neat emulsion flowrate</td>
<td>1 - 5 l/h</td>
<td>5 - 25 l/h</td>
<td>20 - 100 l/h</td>
</tr>
<tr>
<td>Dilution water flowrate</td>
<td>0.5 - 4 m³/h</td>
<td>0.5 - 4 m³/h</td>
<td>1.2 - 10 m³/h</td>
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<tr>
<td>Dimensions (mm)</td>
<td>850 x 255 x H600</td>
<td>850 x 255 x H600</td>
<td>850 x 255 x H600</td>
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<tr>
<td>Weight (kg)</td>
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- Water supply minimal pressure : 2 bar
- Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP DE
Emulsion Polymer Preparation System

DESCRIPTION
The FLOQUIP DE is a stand-alone polymer make-down system designed to dilute and activate emulsion polymers with water.

The neat emulsion polymer is pumped from a drum, IBC or bulk tank using a variable speed, pulse free pump. Then, it is injected at the suction of a stainless steel dynamic mixer to initiate complete polymer inversion. A second water addition and a static mixer post-dilute the polymer solution to the desired concentration.

OPERATION
The FLOQUIP DE blends controlled amounts of neat polymer and water, then delivers the resulting solution to an aging tank or directly to the process. On demand, water enters the system through a manual control valve. An inlet water solenoid and a flowmeter provide dilution water to the dynamic mixer. The neat polymer pump delivers polymer through an injection check valve into the dilution water line at the suction of the dynamic mixer. High speed mixing takes place to obtain complete polymer inversion and a second water addition post dilutes the polymer solution. On stop demand, the neat polymer is discontinued and, after flushing both mixers, the flow of dilution water is stopped.

FEATURES
• Variable speed progressive cavity pump
• Dynamic mixer
• Adjustable water flow
• Post-dilution
• Electrical and control panel
• Manual and automatic operation
• Level sensor interface to tank
• Water low flow automatic shut-down
• Stand-alone skid

BENEFITS
• Complete system
• Easy installation
• Small footprint

OPTIONS
• Maturation tank
• Level probes
• Dosing pump at the outlet of the maturation tank
• Filtration system

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DE 100</th>
<th>DE 200</th>
<th>DE 300</th>
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<tbody>
<tr>
<td>Neat emulsion flowrate</td>
<td>1 - 5 l/h</td>
<td>5 - 25 l/h</td>
<td>20 - 100 l/h</td>
</tr>
<tr>
<td>Dilution water flowrate</td>
<td>0.5 - 4 m³/h</td>
<td>0.5 - 4 m³/h</td>
<td>1.2 - 10 m³/h</td>
</tr>
<tr>
<td>Post dilution water flowrate</td>
<td>1.2 - 10 m³/h</td>
<td>1.2 - 10 m³/h</td>
<td>1.2 - 10 m³/h</td>
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<td>Dimensions (mm)</td>
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<td>1200 x 680 x H970</td>
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<td>Weight (kg)</td>
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• Water supply minimal pressure : 2 bar
• Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
**FLOQUIP DE+**  
*Emulsion Polymer Preparation System*

**DESCRIPTION**  
The FLOQUIP DE+ is a fully automated and controlled polymer make-down system designed to dilute and activate emulsion with water.

The neat emulsion polymer is pumped from a drum, IBC or bulk tank using a variable speed, pulse free pump. Then, it is injected at the suction of a stainless steel dynamic mixer to initiate complete polymer inversion.

**OPERATION**  
The FLOQUIP DE blends controlled amounts of neat polymer and water, then delivers the resulting solution to an aging tank or directly to the process. Under normal operating conditions, the preparation of the solution begins on demand.

- The neat emulsion polymer is pumped from a drum, IBC or bulk tank using the variable speed progressive cavity pump.
- Then, it is injected into the water line at the suction side of a stainless steel dynamic mixer to initiate complete polymer inversion.
- After blending through the dynamic mixer, the prepared solution is delivered to tank or to process.
- On stop demand, the dosage of neat emulsion is discontinued and, after flushing timer, the flow of dilution water is closed. Concentration and flow of the prepared solution are fully controlled throughout the cycle:
  - A PID control, done by an electromagnetic flowmeter associated to a control valve, ensures a stable water flowrate.
  - A PID control, done by a Coriolis flowmeter associated to a variable pump speed drive unit, ensures a stable concentration of the prepared solution.

**FEATURES**  
- Variable speed progressive cavity pump
- Dynamic mixer
- Accurate and automatic control of concentration and flow
- Electrical and control panel
- Manual and automatic operation
- Fully automatic operation managed by level probes of the maturation tank or order from process/client
- Stainless steel piping and coated frame
- Stand-alone skid, compact and easy to install and maintain

**BENEFITS**  
- Fully automated system
- Easy installation
- Small footprint
- Simple design and operation

**OPTIONS**  
- Maturation tank
- Level probes
- Dosing pump at the outlet of the maturation tank
- Filtration system

**TECHNICAL SPECIFICATIONS**

<table>
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<tr>
<th>Version</th>
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<th>DE 300+</th>
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<tbody>
<tr>
<td>Neat emulsion flowrate</td>
<td>1 - 5 l/h</td>
<td>5 - 25 l/h</td>
<td>20 - 100 l/h</td>
</tr>
<tr>
<td>Dilution water flowrate</td>
<td>0.5 - 4 m³/h</td>
<td>0.5 - 4 m³/h</td>
<td>1.2 - 10 m³/h</td>
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<td>Dimensions (mm)</td>
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<td>1500 x 700 x H1710</td>
<td>1500 x 700 x H1710</td>
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</tbody>
</table>

- Water supply minimal pressure : 2 bar
- Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
- Air supply pressure : 5.5 - 7.5 bar
**DESCRIPTION**

The FLOQUIP DE+ HYGIENIC is a fully automated and controlled polymer make-down system designed to dilute and activate emulsion: especially FLOSOFT products in HOME CARE applications.

The neat emulsion polymer is pumped from a drum, IBC or bulk tank using a variable speed, pulse free pump. Then, it is injected at the suction of a stainless steel dynamic mixer to initiate complete polymer inversion.

Equipment and piping, in contact with the water, are designed and manufactured as per hygienic standards (EHEDG, FDA).

**BENEFITS**

- Fully automated system
- Accurate control of the concentration / flow
- Manual and automatic mode
- Hygienic standards for parts in contact with water (easy drainage / efficient cleaning)

**OPERATION**

The FLOQUIP DE+ HYGIENIC blends controlled amounts of neat polymer and water, then delivers the resulting solution to an aging tank or directly to the process. Under normal operating conditions, when the unit is in automatic mode, the preparation of the solution begins on demand.

- The neat emulsion polymer is pumped from a drum, IBC or bulk tank using the variable speed progressive cavity pump.
- Then, it is injected into the water line at the suction side of a stainless steel dynamic mixer to initiate complete polymer inversion.
- After blending through the dynamic mixer, the prepared solution is delivered to tank or to process.
- On stop demand, the dosage of neat emulsion is discontinued and, after flushing timer, the flow of dilution water is closed.

Concentration and flow of the prepared solution are fully controlled throughout the cycle:
- A PID control, done by a Coriolis flowmeter associated to a control valve, ensures a stable water flowrate.
- A PID control, done by a Coriolis flowmeter associated to a variable pump speed drive unit, ensures a stable concentration of the prepared solution.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Version</th>
<th>DE+ HYGIENIC</th>
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<tbody>
<tr>
<td>Neat emulsion flowrate</td>
<td>Up to 2,000 L/h</td>
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<tr>
<td>Dilution water flowrate</td>
<td>Up to 100 m³/h</td>
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</table>

- Water supply minimal pressure : 2 bar
- Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
- Air supply pressure : 5.5 - 7.5 bar
FLOQUIP SE
Emulsion Polymer Storage Unit

DESCRIPTION
The FLOQUIP SE is a storage tank designed to homogenise and filter polymer emulsion solutions. This system will eliminate the problems that decrease emulsion efficiency.

The product is optimized by:
• the elimination of polymer deposits
• re-suspension of the emulsion

OPERATION
The tank is filled through a filter that eliminates polymer deposits created during extended storage time. In general, agitating time of 10 minutes per day is sufficient to avoid natural decantation.

FEATURES
• Tank
• Agitator
• Bag filter support
• 1 1/2” drain valve for total emptying

BENEFITS
• Avoids decantation
• Eliminates the deposits
• Allows a good homogenisation before use
• Complete system
• Easy to install
• Low maintenance

OPTIONS
• Low level alarm
• Automatic agitation
• High quality filtration system
• Dosing pump

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>SE 10</th>
<th>SE 20</th>
<th>SE 30</th>
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<tr>
<td>Tank volume (liters)</td>
<td>1500</td>
<td>3500</td>
<td>4500</td>
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<tr>
<td>Agitation power (kW)</td>
<td>0.55</td>
<td>1</td>
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<td>Dimensions (mm)</td>
<td>1160 x 1100 x H1800</td>
<td>On demand</td>
<td>On demand</td>
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<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>On demand</td>
<td>On demand</td>
</tr>
</tbody>
</table>

• Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
DESCRIPTION
The container mixer associates low speed rotation (100/169 rpm) and an impeller with retractable blades (400 mm). These major advantages make it ideal to mix/agitate 1000 liters IBC.

The impeller, thanks to it specially designed profile, unfolds automatically when it rotates and folds naturally when the mixer turns off. A diameter of 115 mm is sufficient to allow the passage of the blades.

FEATURES
- Passage diameter 115 mm
- Folding impeller
- Stainless steel shaft and impeller
- Automatic unfold with rotation
- 2 different models: 100 or 169 rpm

BENEFITS
- Easy installation
- Mixing of chemicals prior usage
- Homogenization of chemicals after a long storage

OPTIONS
- Support for IBC mounting
- On/off switch box
- Frequency inverter
- Adaptor for forklift

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>400</th>
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<th>800</th>
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<tbody>
<tr>
<td>Impeller diameter (mm)</td>
<td>200</td>
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<td>400</td>
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<tr>
<td>Passage diameter (mm)</td>
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<td>115</td>
<td>115</td>
</tr>
<tr>
<td>Rotation speed (rpm)</td>
<td>100 or 169</td>
<td>100 or 169</td>
<td>100 or 169</td>
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<tr>
<td>Motor power (kW)</td>
<td>0.55</td>
<td>0.55</td>
<td>0.55</td>
</tr>
<tr>
<td>Weight (kg)</td>
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</table>

- Electrical power supply: 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP DP 220
Dry Polymer Dissolution Unit

DESCRIPTION
The FLOQUIP DP 220 is a fast efficient polymer powder preparation system. The whole unit is mounted on one frame and easy to move. It is composed of two tanks of 1 m³ which are alternately used to prepare the polymer solution or to feed the application pump/line.

OPERATION
As the operator wants to make up a polymer solution, he needs to fills half of the tank with water. Then he turns on the agitator and places the desired quantity of polymer powder in the hopper. The polymer is dispersed and wetted in the water flow as it enters the tank. As soon as the tank is full, the water supply is switched off by the operator but the stirring keeps on. The solution is mixed and matured during the required time till the other tank is filled out by the dosing pump. The suction is manually transferred to the other tank when the first one is empty.

The FLOQUIP DP 220 is an efficient way for the manual dissolution of solid grade flocculants.

FEATURES
• Two 1 m³ tanks
• Two slow speed agitators with supporting structures
• Two flocculant wetting modules
• One dosing pump with speed variator
• Two level controls
• One post dilution system
• One control panel

BENEFITS
• Easy to install
• Complete system
• Self-contained
• Easy to use

OPTIONS
• Secondary backup dosing pump
• Filtration system

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>DP220 110F4</th>
<th>DP220 750 F4</th>
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<tbody>
<tr>
<td>Dosing pump</td>
<td>20-110 l/h</td>
<td>150-700 l/h</td>
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<tr>
<td>Power (kW)</td>
<td>0.75</td>
<td>0.75</td>
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<tr>
<td>Dimensions (mm)</td>
<td>2900 x 1050 x H1600</td>
<td>2900 x 1050 x H1600</td>
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<tr>
<td>Weight (kg)</td>
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<td>350</td>
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</tbody>
</table>

• Water supply minimal pressure : 1 bar
• Electrical power supply : 230 V, 1 phases, 50 Hz
FLOQUIP DPx21
Dry Polymer Dissolution Unit

DESCRIPTION
The FLOQUIP DPx21 is a self-contained, split tank design, automated polymer dilution and solution feed system for application of dry polymer. The polymer mixing tank is equipped with a dry polymer feeder and wetting system. The solution is agitated till the polymer is dissolved and then it is transferred to the application tank.

The application pump is variable speed and delivers the prepared polymer solution continuously. An optional post-dilution system is available on request.

OPERATION
A controlled rate of dilution water flow enters the mixing tank to a preset level above the bottom agitator blade. This preset level actuates the dry polymer feed and mixing tank agitator. The dry polymer feeder introduces the polymer into the dilution water stream entering the mixing tank.

Solution agitation continues until proper solution aging and uniformity is achieved and ready for application. Then, the solution is transferred into the application tank for plant system use. After the solution transfer is completed, the system automatically starts a new preparation cycle. The variable speed application pump of the FLOQUIP DPx21 system delivers the prepared polymer solution.

FEATURES
- 304L stainless steel polymer mixing and application tank
- Dry polymer feeder
- Wetting weir
- PLC control system
- Automatic level controls
- Transfer and application pumps
- Automatic High/Low shutdown alarm

BENEFITS
- Fully automated system
- Self contained
- User friendly PLC operation
- Low maintenance

OPTIONS
- Post-dilution system
- Filtration system
- Additional dosing pumps at the outlet of the application tank
- Remote control from customer

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DP 221</th>
<th>DP 421</th>
<th>DP 721</th>
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<tbody>
<tr>
<td>Tank volume</td>
<td>2 m³</td>
<td>4 m³</td>
<td>7 m³</td>
</tr>
<tr>
<td>Volume of each tank</td>
<td>1 m³</td>
<td>2 m³</td>
<td>3.5 m³</td>
</tr>
<tr>
<td>Agitation speed (rpm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Agitation power (kW)</td>
<td>0.75</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>2056 x 1406 x H1901</td>
<td>2386 x 1636 x H2795</td>
<td>3086 x 1936 x H2795</td>
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</tbody>
</table>

- Water supply minimal pressure: 3 bar
- Electrical power supply: 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
**DESCRIPTION**

The FLOQUIP DPx21-BL is a self-contained, automated polymer dilution and solution feed system for application of dry polymer. The powder is transferred from the hopper to the mixing tank with a pneumatic device and a dry polymer wetting system. The solution is agitated till the polymer is dissolved and then it is transferred to the application tank.

The application pump is variable speed and delivers the prepared polymer solution continuously. An optional post-dilution system is available on request.

**OPERATION**

A controlled rate of dilution water flow enters the mixing tank to a preset level above the bottom agitator turbine. This preset level actuates the dry polymer transfer and mixing tank agitator. The dry polymer transfer introduces the polymer into the wetting system with water. Solution agitation continues until proper solution aging and uniformity is achieved and ready for application.

Then, the solution is transferred into the application tank for plant system use. After the solution transfer is completed, the system automatically starts a new preparation cycle. The variable speed application pump of the FLOQUIP DPx21-BL system delivers the prepared polymer solution.

**FEATURES**

- 304L stainless steel polymer mixing and application tank
- Dry polymer transfer with blower
- PLC control system
- Automatic level controls
- Transfer and application pumps
- Automatic High/Low shutdown alarms

**BENEFITS**

- Fully automated system
- Self contained
- User friendly PLC operation

**OPTIONS**

- Post-dilution system
- Filtration system
- Additional dosing pumps at the outlet of the application tank

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
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<th>DP1021-BL</th>
<th>DP2021-BL</th>
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<tbody>
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<td>Mixing tank volume</td>
<td>5 m³</td>
<td>10 m³</td>
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<tr>
<td>Storage tank volume</td>
<td>5 m³</td>
<td>10 m³</td>
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<tr>
<td>Agitation speed (rpm)</td>
<td>100</td>
<td>100</td>
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<td>Agitation power (kW)</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Powder feeder</td>
<td>50-230 kg/h</td>
<td>50-230 kg/h</td>
</tr>
</tbody>
</table>

- Water supply minimal pressure: 3 bar
- Electrical power supply: 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP DPx00-C
Dry Polymer Dissolution Unit with Dispersing Pump and Load Cells

DESCRIPTION
The FLOQUIP DPx00-C is a stand-alone polymer make-down system designed to disperse and wet dry polymer. Polymer powder is incorporated into dilution water with the help of a dispersing pump, in order to ensure a proper hydration of the polymer and a homogeneous solution. Load cells on the hopper ensure a controlled quantity of polymer delivered to the system.

OPERATION
On demand from a low level sensor in the aging tank, the dry polymer is metered via volumetric feeder into a wetting assembly and a dispersing pump, where the proper proportion of water and polymer are mixed together at a pre-set concentration. The resulting mixture is then discharged into the aging tank (to complete the hydration process). On demand from a high level sensor, the dry polymer feeder is discontinued and, after flushing time, the flow of water is stopped.

FEATURES
• Load cells for powder quantity control
• Dry polymer hopper
• Dosing screw
• Adjustable water flow
• Electrical and control panel
• Manual and automatic operation
• Level sensor interface to tank
• Water low flow automatic shutoff
• Stand-alone skid

BENEFITS
• Complete system
• Accurate solution control
• Easy installation

OPTIONS
• Different hopper capacities
• Electromagnetic flowmeter for water
• Aging tank and level probes
• Filtration system

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DE 100</th>
<th>DE 200</th>
<th>DE 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder feeder</td>
<td>27 kg/h</td>
<td>40 kg/h</td>
<td>126 kg/h</td>
</tr>
<tr>
<td>Dilution water flowrate</td>
<td>1-4 m³/h</td>
<td>1.5-6 m³/h</td>
<td>4-15 m³/h</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>1140 x 630 x H1450</td>
<td>1140 x 630 x H1450</td>
<td>1000 x 800 x H1500</td>
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• Water supply minimal pressure: 2 bar
• Electrical power supply: 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP DPx00-P
Dry Polymer Dissolution Unit with a Dispersing Pump

DESCRIPTION
The FLOQUIP DPx00-P is a stand-alone polymer make-down system designed to disperse and wet dry polymer.

Polymer powder is incorporated into dilution water with the help of a dispersing pump, in order to ensure a proper hydration of the polymer and a homogeneous solution.

OPERATION
On demand from a low level sensor in the aging tank, the dry polymer is metered via volumetric feeder into a wetting assembly and a dispersing pump, where the proper proportion of water and polymer are mixed together at a pre-set concentration. The resulting mixture is then discharged into the aging tank (to complete the hydration process).

On demand from a high level sensor, the dry polymer feeder is discontinued and, after flushing time, the flow of water is stopped.

FEATURES
• Dry polymer hopper
• Dosing screw
• Adjustable water flow
• Electrical and control panel
• Manual and automatic operation
• Level sensor interface to tank
• Water low flow automatic shutoff
• Stand-alone skid

BENEFITS
• Complete system
• Accurate solution control
• Easy installation

OPTIONS
• Different hopper capacities
• Electromagnetic flowmeter for water
• Aging tank and level probes
• Filtration system

TECHNICAL SPECIFICATIONS

<table>
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<tr>
<th>Version</th>
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<th>DP200-P</th>
<th>DP300-P</th>
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<tbody>
<tr>
<td>Powder feeder</td>
<td>27 kg/h</td>
<td>40 kg/h</td>
<td>126 kg/h</td>
</tr>
<tr>
<td>Dilution water flowrate</td>
<td>1 - 4 m³/h</td>
<td>1.5 - 6 m³/h</td>
<td>4 - 15 m³/h</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>1140 x 630 x H1450</td>
<td>1140 x 630 x H1450</td>
<td>1000 x 800 x H1500</td>
</tr>
</tbody>
</table>

• Water supply minimal pressure : 2 bar
• Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP DPx00-E+
Dry Polymer Dissolution Unit with a Water Eductor

DESCRIPTION
The FLOQUIP DP00x-E+ is a fully automated and controlled polymer make-down system designed to disperse and wet dry polymer.

Polymer powder is incorporated into dilution water with the help of a highly efficient eductor, in order to ensure a proper hydration of the polymer and a homogeneous solution.

FEATURES
• Dry polymer hopper
• Dosing screw
• Water booster pump
• Controlled water flow
• Electromagnetic flowmeter
• Electrical and control panel
• Manual and automatic operation
• Level sensor interface to tank
• Water low flow automatic shutoff
• Stand-alone skid

BENEFITS
• Accurate solution concentration control
• Easy installation
• Low maintenance
• Easy connection to existing tanks

OPTIONS
• Big bag unloading station
• Aging tanks and level probes
• Filtration system

OPERATION
On demand from a low level sensor in the aging tank, the dry polymer is metered via volumetric feeder into the polymer wetting assembly, where the proper proportion of water and polymer are mixed together at a pre-set concentration. The resulting mixture is then discharged into the aging tank (to complete the hydration process).

On demand from a high level sensor, the dry polymer feeder is discontinued and, after flushing time, the flow of water is stopped.

TECHNICAL SPECIFICATIONS
<table>
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<th>Version</th>
<th>DP100-E+</th>
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<th>DP300-E+</th>
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<tbody>
<tr>
<td>Powder feeder</td>
<td>25 kg/h</td>
<td>60 kg/h</td>
<td>100 kg/h</td>
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<tr>
<td>Dilution water flowrate</td>
<td>5 m³/h</td>
<td>12 m³/h</td>
<td>20 m³/h</td>
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<tr>
<td>Dimensions (mm)</td>
<td>1500 x 1500 x H1750</td>
<td>1500 x 1500 x H1750</td>
<td>1500 x 1500 x H1750</td>
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</table>

• Water supply minimal pressure : 2 bar
• Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
FLOQUIP METERING SKID
Polymer Metering and Injection Unit

DESCRIPTION
The FLOQUIP METERING SKID is a stand-alone system designed to dose and to inject liquid polymer solutions.

The polymer solution is pumped from a storage tank using a variable speed, pulse free pump. Also, the polymer solution can be diluted with a post-dilution water line.

This equipment is designed in function of the application, with specific flowrates and specifications.

OPERATION
The FLOQUIP METERING SKID start on demand from a manual selection or from a remote signal. The unit inject the polymer solution to the process. With a post-dilution device: an inlet water solenoid and a flowmeter provide a controlled flow of water to a static mixer.

Before the stop of the unit, the polymer solution is discontinued and, after flushing, the flow of dilution water is stopped.

FEATURES
• Variable speed progressive cavity pump
• Adjustable water flow
• Electrical control panel: manual and automatic
• Water low flow automatic shutoff
• Stand-alone skid

OPTIONS
• Spare pump
• Number of injection lines
• Electromagnetic flowmeter
• Post-dilution
• Remote control

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>Skid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer solution flowrate</td>
<td>On demand</td>
</tr>
<tr>
<td>Numbers of applications line</td>
<td>On demand</td>
</tr>
<tr>
<td>Post dilution water flowrate</td>
<td>On demand</td>
</tr>
<tr>
<td>Dimensions</td>
<td>On demand</td>
</tr>
</tbody>
</table>
FLOQUIP ASA-EU
ASA and Polymer Emulsification System

DESCRIPTION

The FLOQUIP ASA-EU emulsifies ASA synthetic size with a cationic polymer and doses the emulsion continuously into the paper process for internal sizing of a broad range of papers and boards.

FEATURES

• One water line for the dilution
• One caustic line for special cleaning
• Two dosing pumps (ASA and Polymer) with a flow meter for each
• One dispersing pump
• One recirculation loop with a control valve to adjust the pressure
• One final solution line with a flow meter and a regulating valve to adjust the flow of emulsion
• One water line for manual post-dilution (with a flow meter)
• One control panel with a touch-screen operator interface

OPERATION

Under normal operating conditions when the unit is in automatic mode, the water solenoid valve opens and the pumps start in a precise sequence. Flows and pressure will be automatically adjusted according set points and concentration.

• Water is premixed with polymer by a static mixer.
• ASA is injected at the inlet of the dispersing pump.
• Recirculation through the dispersing pump at high pressure ensures high quality emulsion production.
• Mixing of emulsion and post dilution water is done by a static mixer.
• Automatic cleaning with water is carried out after the completion of each batch cycle or after each stop.
• Cleaning sequence can be done with water or soda in manual mode.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DE 100</th>
<th>DE 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASA flowrate</td>
<td>10 - 50 l/h</td>
<td>5 - 20 l/h</td>
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<tr>
<td>Liquid polymer flowrate</td>
<td>10 - 50 l/h</td>
<td>5 - 20 l/h</td>
</tr>
<tr>
<td>Emulsion flow</td>
<td>200 - 1000 l/h</td>
<td>100 - 300 l/h</td>
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<tr>
<td>Post - dilution water flowrate</td>
<td>0 - 5000 l/h</td>
<td>1000 - 3000 l/h</td>
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<tr>
<td>Dimensions (mm)</td>
<td>2200 x 1700 x H1500</td>
<td>1900 x 1300 x H1750</td>
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<tr>
<td>Water</td>
<td>3 - 6 m³/h</td>
<td>1 - 4 m³/h</td>
</tr>
</tbody>
</table>

• Water supply minimal pressure : 2 bar
• Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
• Air supply pressure : 5.5 - 7.5 bar
FLOQUIP DB
Bentonite Slurry Preparation Unit

DESCRIPTION
The FLOQUIP DB is a self-contained, automated bentonite dilution and solution feed system for paper application.

The big-bags of bentonite are placed on the unloading station with the help of a hoist. The powder feeder introduces the bentonite into the dilution water in a wetting funnel, then delivers the resulting solution to a tank through a dispersing pump. The solution is agitated till the bentonite is dissolved and then it is transferred to the application/storage tank.

OPERATION
A controlled rate of dilution water flow enters the mixing tank to a preset level above the bottom agitator turbine. This preset level actuates the bentonite dosing and the mixing tank agitator. Solution agitation continues until proper solution aging and uniformity is achieved and ready for application. Then, the solution is transferred into the application tank for plant system use. After the solution transfer is completed, the system automatically starts a new preparation cycle.

FEATURES
- 304L stainless steel mixing and application tank
- Wetting funnel with dispersing pump
- PLC control system
- Automatic level controls
- Transfer and application pumps
- Automatic High/Low shutoff alarms

BENEFITS
- Fully automated system
- Self contained
- User friendly PLC operation

OPTIONS
- Post-dilution system
- Additional dosing pumps at the outlet of the application tank
- Remote control of the unit

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Version</th>
<th>DB421</th>
<th>DB721</th>
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<tbody>
<tr>
<td>Mixing tank volume</td>
<td>2 m³</td>
<td>3.5 m³</td>
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<tr>
<td>Storage tank volume</td>
<td>2 m³</td>
<td>3.5 m³</td>
</tr>
<tr>
<td>Agitation speed in mixing tank (rpm)</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>Agitation speed in application tank (rpm)</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

- Water supply minimal pressure : 3 bar
- Electrical power supply : 400 V, 3 phases, 50 Hz or 460 V, 3 phases, 60 Hz
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