

OPTIFLOC®

**AUTOMATIC DOSAGE CONTROL OF
FLOCCULANTS AND COAGULANTS**

TÉCNICAS DE FILTRACIÓN S.A.

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OPTIFLOC®

Device designed to be able to automatically regulate the dosage of flocculants and coagulants, in an optimum or desired proportion for the separation of liquid solids in the following technologies:

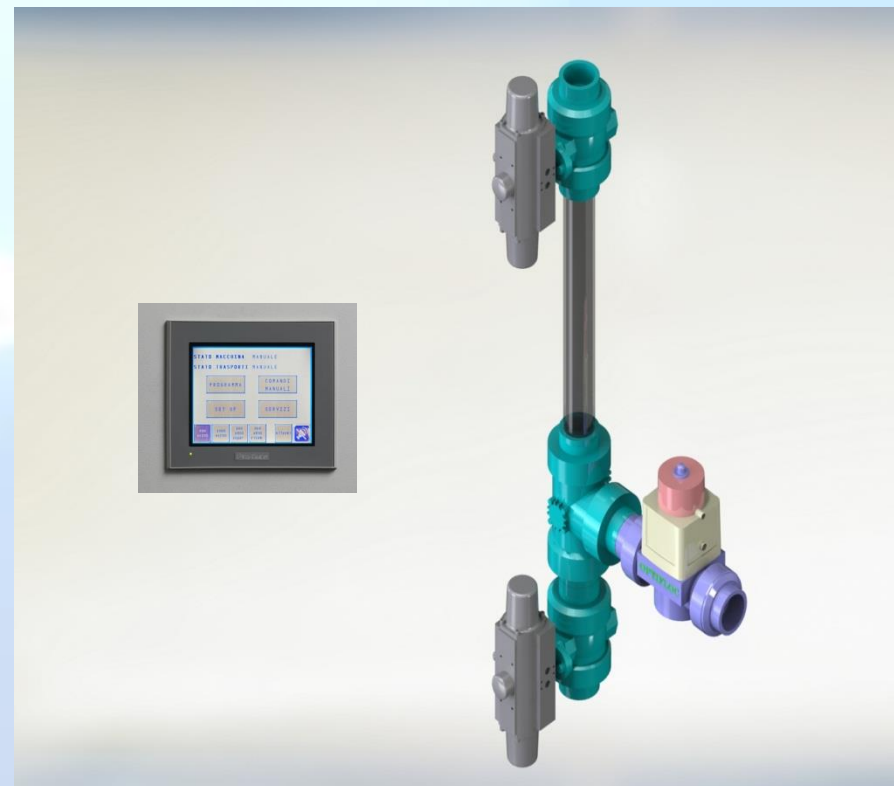
- Decanters
- Belt filter presses
- Thickeners
- Filter presses
- Candle filters
- Basket filters
- Centrifuges
- Others

Advantages of a good dosage in this type of equipment implies:

- Considerable savings in flocculants and/or similar coagulants
- Maintenance works
- Transport
- Operation time
- Others

OPTIFLOC® PROGRAM

Designed so that in each case, depending on the equipment or process in which the unit is going to be applied, it does not only control the dosage but also has a series of alarms and notifications that help to know the causes of the setbacks. At the same time, if desired, it can send signals that stop the process to avoid major damages.



OPTIFLOC® & FILTER PRESS

Optifloc® improves the performance and consumption of dosing agents in the filter presses by taking samples of the sludge entering the unit, controlling the speed of the flocculant dosing pump, and giving the selected performance according to the needs or preferences of the plant

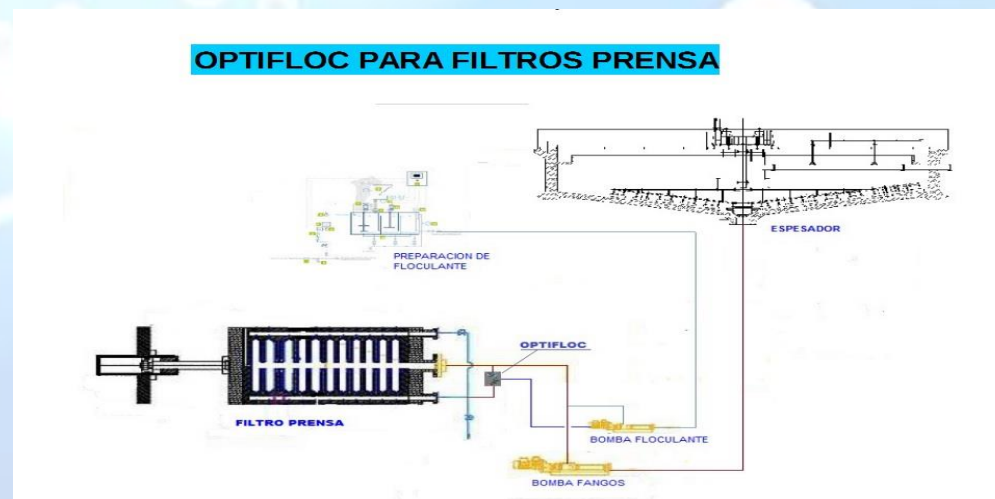
A GOOD FLOCCULATION IN THIS TYPE OF EQUIPMENT MEANS THE FOLLOWING ADVANTAGES:

- Higher cake dryness
- It assists and improves the cake discharge process, also making it faster
- The system does not make the filter cloths dirty (a good flocculation even cleans them!)
- Does not require as much time and operator attention
- Filter cloths last longer
- Considerable saving in flocculants
- When the cakes are drier, it implies a reduced transportation cost with more solids and less moisture

PERFORMANCE:

Optifloc® is designed to take product samples entries at adjustable time intervals from the screen to suit to the needs of the plant.

Depending on the parameters already set, it tells the dosing pump to increase or decrease the speed, obtaining the desired dryness.



OPTIFLOC® & BELT FILTER PRESS

Optifloc® improves the performance and consumption of dosing agents in the belt filter presses by taking samples of the sludge entering the unit, controlling the speed of the flocculant dosing pump, and giving the selected performance according to the needs or preferences of the plant

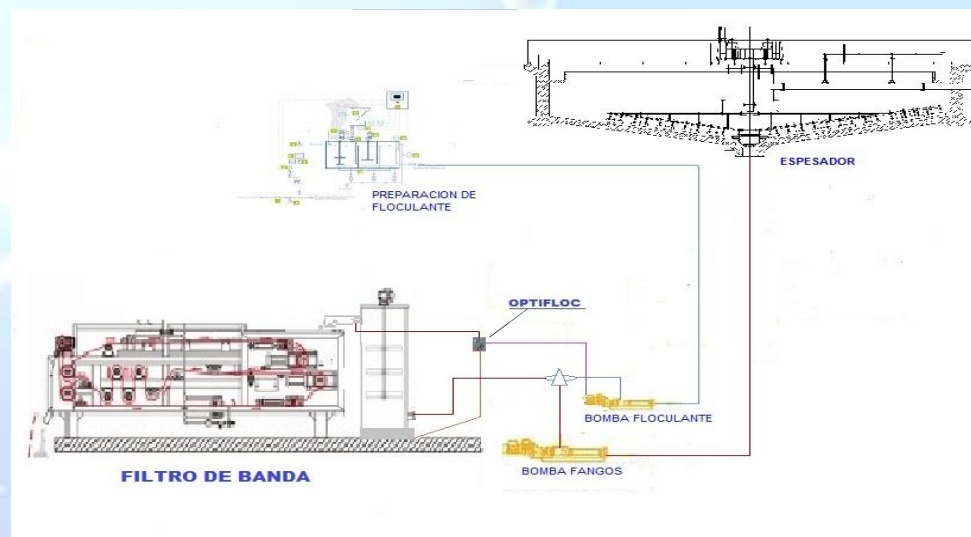
A GOOD FLOCCULATION OF THIS TYPE OF EQUIPMENT MEANS THE FOLLOWING ADVANTAGES:

- Higher cake dryness
- The system does not make the filter belts dirty (a good flocculation even cleans them!)
- Does not require as much time and operator attention
- Considerable saving in flocculants
- When the cakes are drier, it implies a reduced transportation cost with more solids and less moisture

PERFORMANCE:

Optifloc® is designed to take product samples entries at adjustable time intervals from the screen to suit to the needs of the plant.

Depending on the parameters already set, it tells the dosing pump to increase or decrease the speed, obtaining the desired dryness.



OPTIFLOC® & CENTRIFUGES

Optifloc® is very efficient in centrifuges as they have to work most of the times with excess flocculant because of the high speed operation, breaking the flocs and having difficulties to find the optimum point of flocculation only by sight or manually.

The problem of working with excess flocculant is that a part of it returns to the plant creating a series of setbacks depending on the type of plant.

In addition we need to account the increase in both flocculant and sludge transport costs, because if we do not control the dryness of the sludge we transport less solids and more liquids, assuming more trips and higher costs.

Optifloc® improves the performance and consumption in the centrifuges by taking samples from the sludge entering the centrifuge, controlling the speed of the flocculating metering pump and giving the selected performance according to the needs or preferences of the plant.

PERFORMANCE:

Optifloc® is designed to take product samples entries at adjustable time intervals from the screen to suit to the needs of the plant.

Depending on the parameters already set, it tells the dosing pump to increase or decrease the speed, obtaining the desired dryness.

