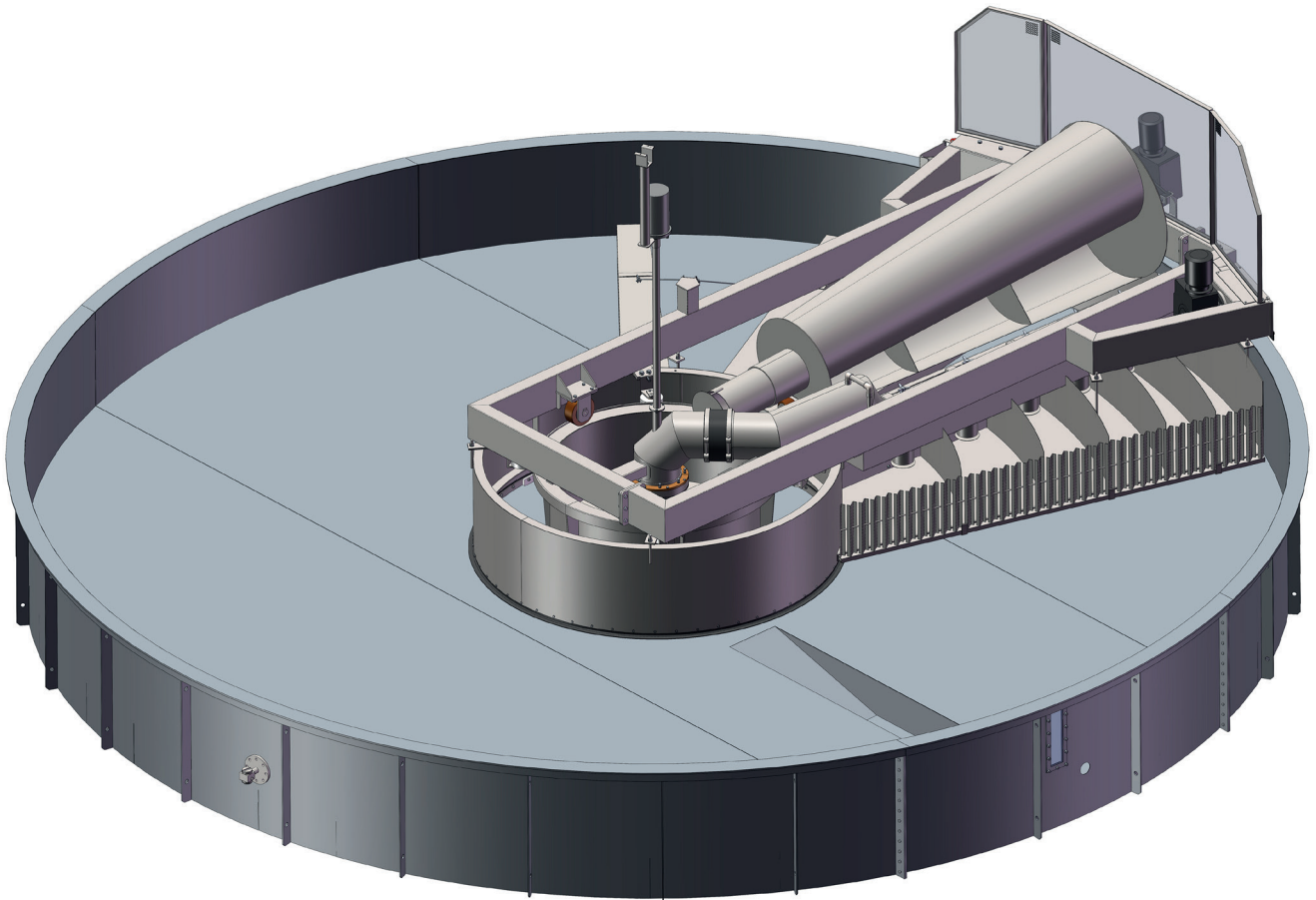


Machinery and Plants for
Paper Industry
Water Treatment Systems



Superflot CFR
Dissolved Air Flotation Unit

Superflot CFR

Dissolved Air Flotation Unit

The Superflot is an equipment that, by using the dissolved air flotation technology, is providing the solid – liquid separation. The flotation tank is circular shaped, the bottom is reinforced with metallic ribs to support and keep it flat and features of a low water profile. It results in limited installation space and reduced weight. For this reason it can be installed at higher position that is resulting in an advantage in terms of used space and energy saving, since both the clarified water and the floated solids can be discharged to the next destination by gravity.

The flotation unit is achieving high performances in combination with an high efficiency pressurization system.

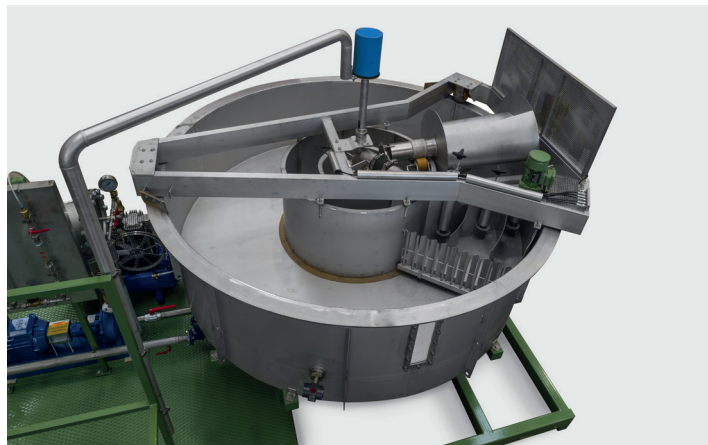
The process mode may be operational on partial or full flow of the raw water or recycling flow pressurisation of the clarified water. The mode is evaluated during the project phase.

The flotator is fed from the centre of the tank through a system that is distributing the water along the whole radial extension of the bridge. The distribution pipe is equipped with openings that can be regulated to give a uniform distribution of the water in the flotation chamber. The additional possibility to adjust the operating speed of the carriage is allowing the release of the water in a quiet mode.

A rotating skimmer installed on a movable bridge is removing the floated sludge from the surface, pouring it into a central tank from where the sludge is discharged by gravity. The optimal consistency of the sludge is obtained adjusting the tank water level by acting on the system made by level transmitter and modulant valve.

The clarified water is removed by extracting pipes, which are attached to the moving centre section. They are conveying the water through the modulant valve out of the machine.

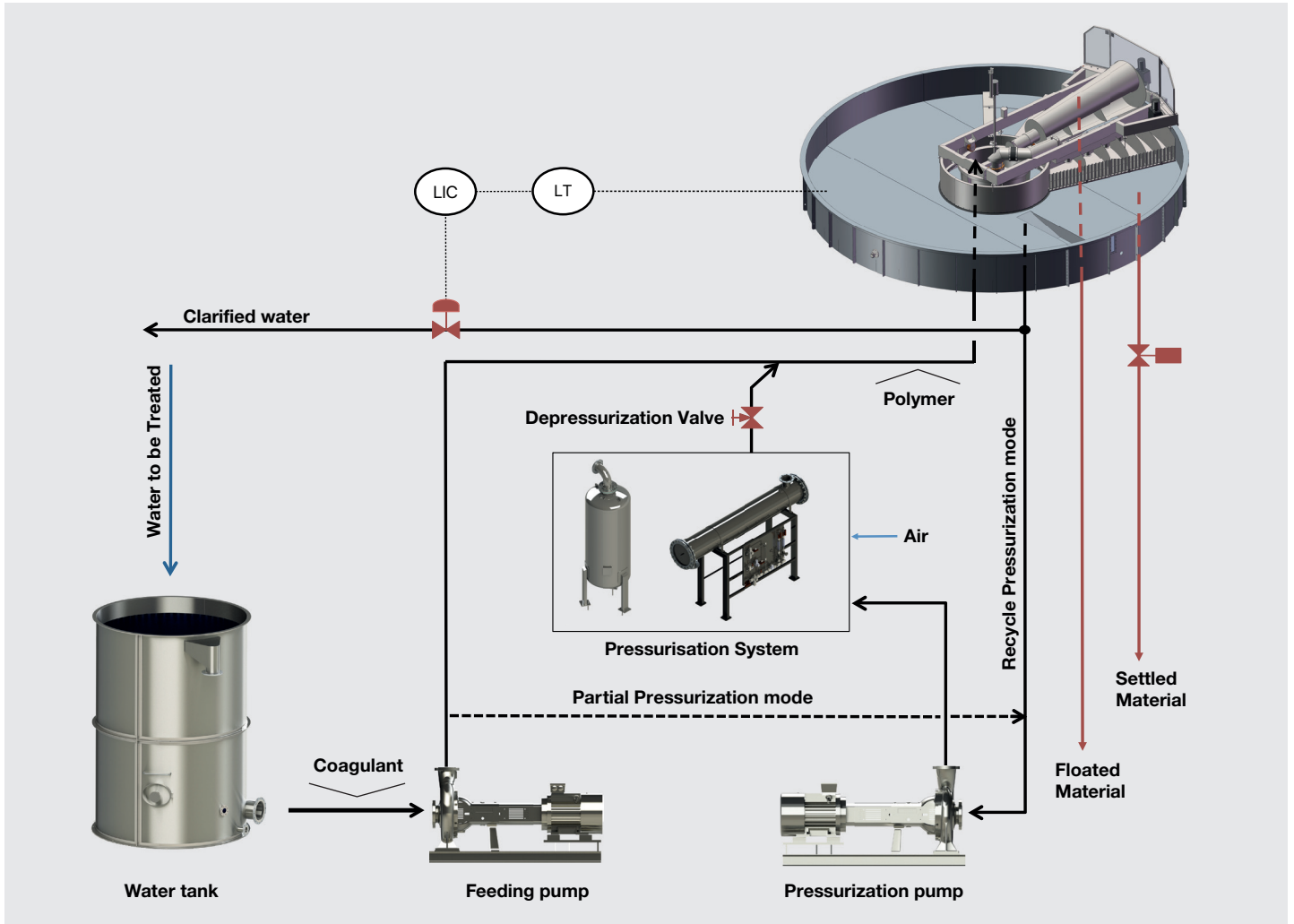
The settled particles are conveyed by a bottom scraper in a sump in from where they are discharged by an automatic timed valve. A lateral scraper is installed for the cleaning of the sidewalls of the tank. This is reducing the need to stop the machine operation for cleaning reasons.



Applications sectors:

- Paper and Board Industry
- Oil Refinery
- Mining Industry
- Chemical and Pharmaceutical Industry
- Textile Industry and Tanneries
- Food and Beverage Industry
- Industrial Laundry
- Municipal and Industrial Water Treatment Plant
- Winery
- Dairy
- Abattoir
- Fish Industry
- Potable Water Plant





Model	Capacity m ³ /h	Overall Diameter mm	Tank Height mm	Overall Height mm
CFR 2400 SJ	32	2800	850	1150
CFR 3200 SJ	60	3600	850	1250
CFR 3900 SJ	90	4300	900	1300
CFR 4500 SJ	120	4900	950	1450
CFR 5500 SJ	180	5900	950	1480
CFR 6100 SJ	220	6600	950	1560
CFR 6700 SJ	265	7200	950	1580
CFR 7200 SJ	305	7700	950	1600
CFR 8100 SJ	385	8600	950	1700
CFR 9000 SJ	480	9600	950	1820
CFR 10000 SJ/DJ	590	10600	950	1840
CFR 11000 SJ/DJ	715	11600	950	1860
CFR 12200 SJ/DJ	875	12800	960	1920
CFR 13400 SJ/DJ	1060	14000	985	1980
CFR 14800 SJ/DJ	1300	15400	985	2070
CFR 16800 SJ/DJ	1700	17400	985	2200
CFR 18900 SJ/DJ	2000	19500	1050	2350
CFR 21300 SJ/DJ	2500	21900	1050	2500

S.T. MACCHINE SpA
via Calcara, 1
36030 Monte di Malo (VI) Italy

tel +39 0445 602688
fax +39 0445 605452

www.stmacchine.it
info@stmacchine.it

