

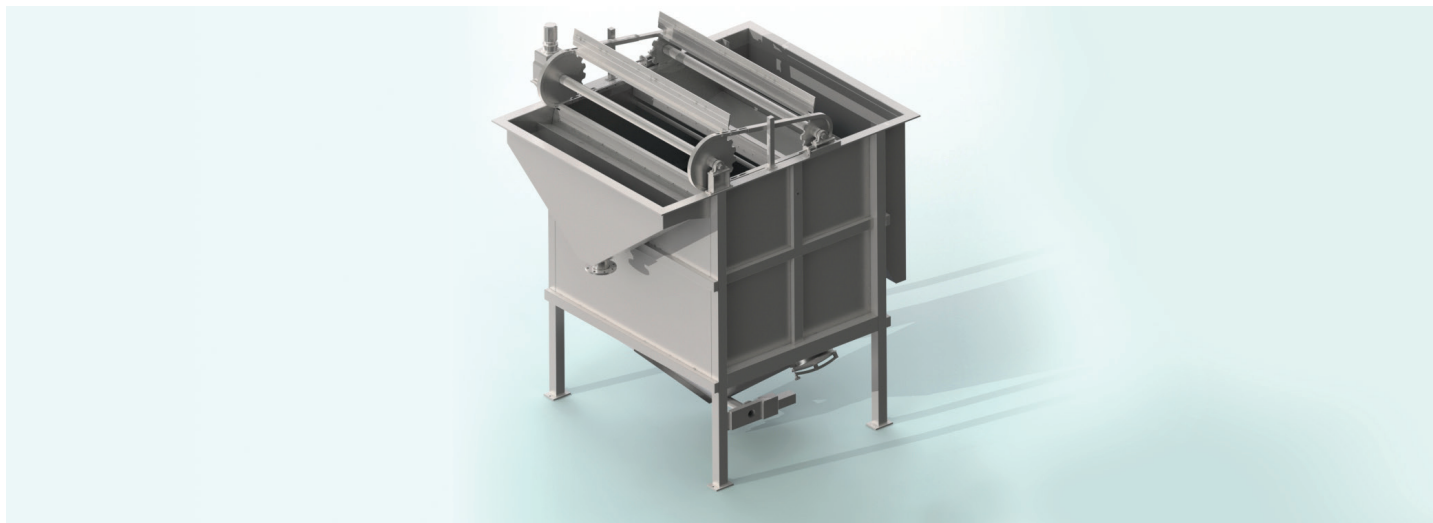
Machinery and Plants for
Paper Industry
Water Treatment Systems



Miniquadraflot CQM
Dissolved Air Flotation Unit

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Dissolved Air Flotation Unit



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The Miniquadraflot is an equipment that, by using the dissolved air flotation technology, is providing the solid – liquid separation.

The floatation tank is rectangular shaped and completely realised in stainless steel. It is a very compact unit suitable for installation in narrow and limited spaces.

The water to be clarified, mixed with the chemicals and pressurised water, is fed from the front of the machine through a special chamber to reduce the turbulence.

From here the water is flowing inside the tank where the flotation process is starting thanks to the air microbubbles, produced by the high efficiency pressurization system, that are floating up to the surface the suspended solids.

The flotation 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.

Before entering the flotation tank, the pressurised water pro-

duced by the pressurization system is passing through a suitable valve to reduce the pressure at atmospheric value.

In this phase a huge amount of microbubbles gets free from the water and once inside the tank they are lifting up the suspended solids to the surface.

The floated sludge is conveyed by paddles to the end part of the machine and from here discharged out.

The optimal consistency of the sludge is obtained adjusting the tank water level by acting on the mechanical weir.

The clarified water is extracted from the bottom part of the tank and conveyed to the level control system.

Possible sediments are collected in a sump in and from there discharged by an automatic valve.

The Miniquadraflot is a simple and easy unit to be operated, resulting in a system showing high efficiency in a limited installation area.

Model	Capacity m ³ /h	Height mm	Width mm	Lenght mm
CQM 10	10	2000	1600	2000
CQM 20	20	2200	1900	2500
CQM 30	30	2400	2200	3000

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