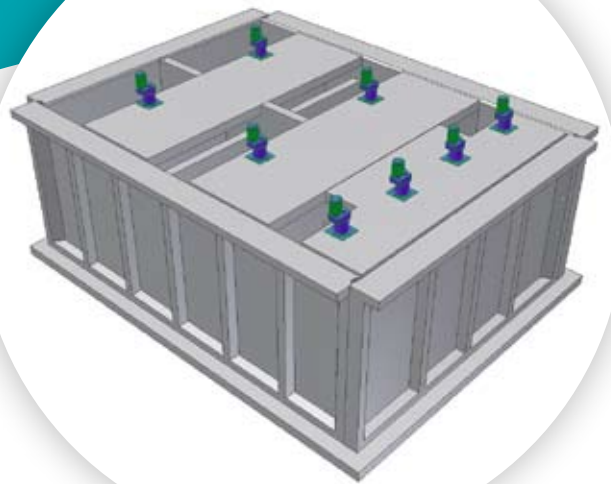


ACTIFLO®



## Prefabricated Actiflo® Concrete Units



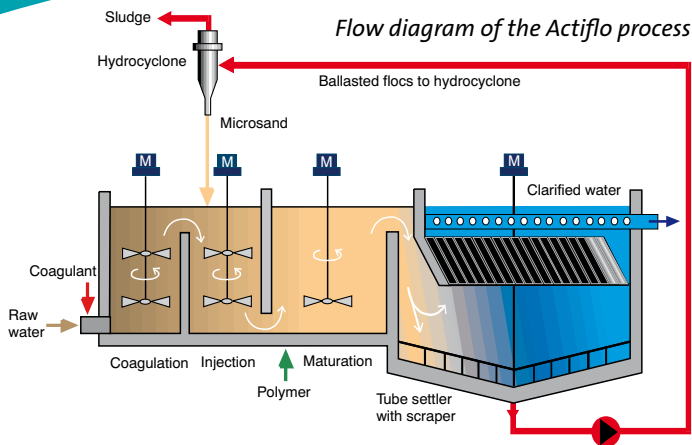
The Actiflo® process in prefabricated concrete units can be installed in existing or new buildings and are ideal when low cost, fast-track, pretested treatment units are required.

### Major benefits

- ▶ High treatment efficiency
- ▶ Very small footprint – suited for restricted spaces and easy retrofit of existing plants
- ▶ Reduced civil engineering – prefabricated concrete elements reduce the civil engineering to a minimum
- ▶ Flexible – can handle extreme variations
- ▶ Very short start-up time – full capacity in minutes
- ▶ Well proven technology –15 years of operating experience with more than 440 Actiflo® references worldwide



# Prefabricated Actiflo® Concrete Units



## Prefabricated concrete units

For small to medium-sized applications, pre-designed units in single or double lines are available. In order to offer a high quality and exceptional competitive solution, units based on prefabricated concrete elements have been developed. These units can be installed in existing or new buildings and are ideal when low cost, fast-track, pre-tested treatment units are required.

The pre-designed units manufactured in concrete elements can be delivered on a trailer and installed within days. The layout of the solutions is flexible and can be fitted into the most constrained sites.

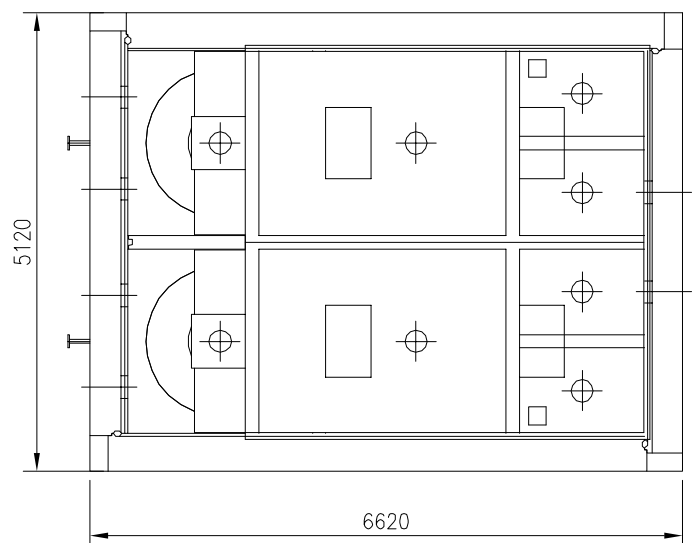
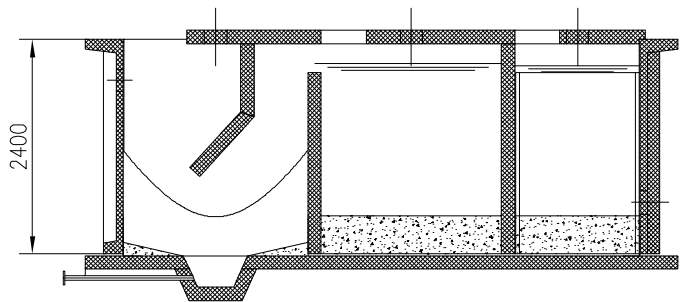
## Actiflo®

Actiflo® is a coagulation, flocculation and settling process that operates with microsand as a seed for the floc formation. The microsand improves both the flocculation through its large specific surface and the sedimentation through its high specific density. The microsand ballasted flocs formed in this process display unique settling characteristics which allow for plant designs with very short retention times. These designs result in system footprints which are up to 50 times smaller than conventional clarification systems with the same capacity.

## Handles extreme flow variations

In order to handle extreme flow variations, the Actiflo® process can be delivered with a simple but unique controlling set-up called Actiflo® Duo. This set-up allows for two different configurations. At low hydraulic loads, the microsand is stored in the injection tank allowing for a simple lamellar settling operation with or without the use of chemicals. At higher loads the microsand is introduced in the process allowing for the high rate Actiflo® operation with extreme up-flow velocities. The result is a very flexible process that minimises energy and chemical consumptions in plants where flow variations over time are significant.

*The figure shows an example of a two line Actiflo® solution made in prefabricated concrete elements. The total size of this solution is less than 30 m<sup>2</sup> even though the total treatment capacity is up to 400 m<sup>3</sup>/h wastewater.*



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