



ACTIFLO® Turbo Microsand Ballasted Clarification Process

ACTIFLO® Turbo

Rapid, Compact, Efficient

Unparalleled Experience in Flocculation/Settling

Since its launch in 1989, ACTIFLO® has been constantly improved to optimize its performance and applications. With more than 450 references installed worldwide, Veolia Water Solutions & Technologies has unparalleled experience which has made it possible to develop the next generation of microsand ballasted clarifiers.

The ACTIFLO® Turbo Process

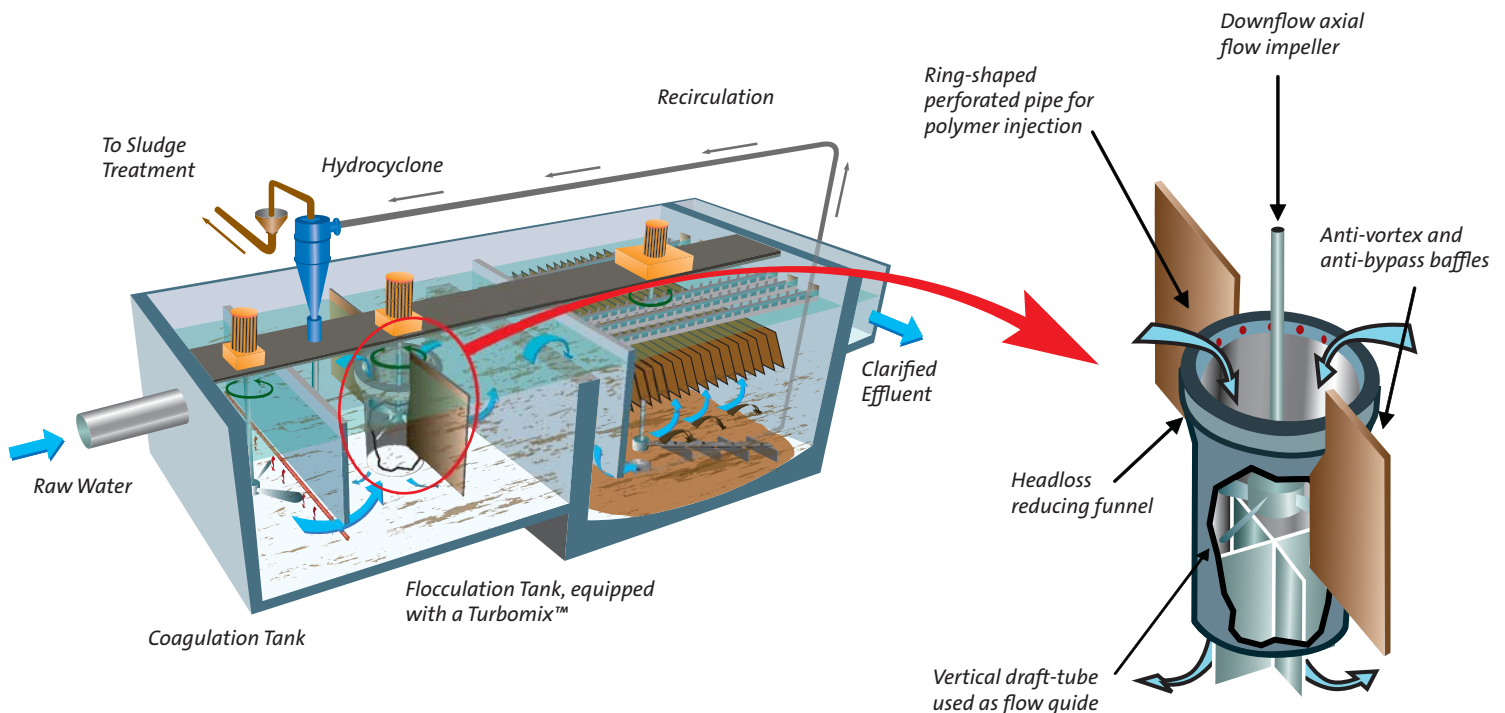
ACTIFLO® Turbo is equipped with:

- Coagulation tank
- Flocculation tank with Turbomix™
- Hydraulically optimized settling tank with lamella
- Hydrocyclone for microsand recovery, alternatively a VWS MA hydrocyclone with integrated microsand washing facility

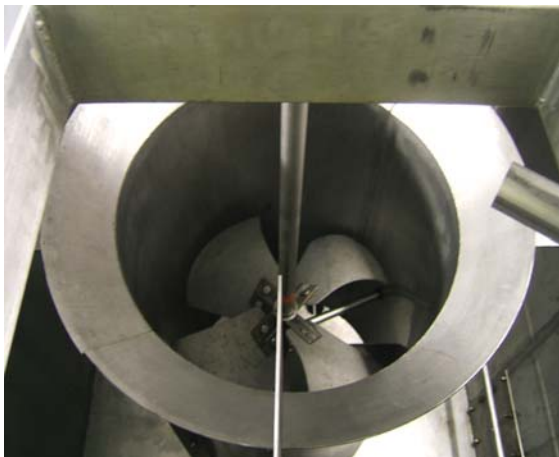
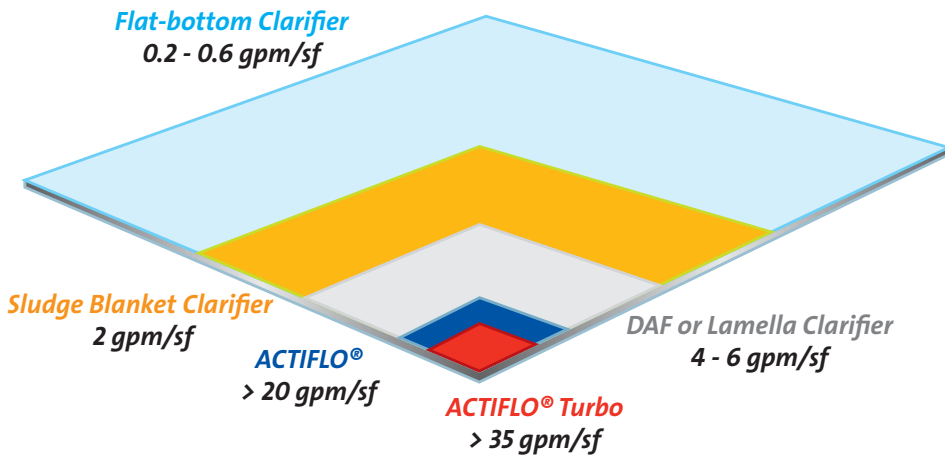
The Turbomix™, a Major Improvement in Flocculation

At the heart of the ACTIFLO® Turbo system, the Turbomix™ was designed to enhance the flocculation efficiency by introducing the following features:

- High level of homogeneous mixing of the coagulated water with the microsand and polymer
- Reduced retention times
- Reduced energy consumption



Comparative Footprints and Rise Rates



Turbomix™ enables an intense mix of ballast with the flocculant and suspended matter within the maturation tank, which leads to stable floc formation protected from the mechanical destruction of a mixing device.

Benefits Of ACTIFLO® Turbo

More Compact

ACTIFLO® Turbo footprint is approximately half of ACTIFLO®

Easier Start-Up

Very quick start-up, less than 5 minutes

Optimized Design

Injection tank omitted

Flocculation Improved

Addition of Turbomix™

Increased Rise Rate

> 35 gpm/sf for drinking water and process water

Package Units

Extremely compact pre-fabricated and pre-assembled steel units for easy installation and low civil costs with flows ranging from 0.25 to 7.5 MGD

Raw Water Treatment

The ACTIFLO® process consistently delivers high quality effluent from raw waters containing either high or low turbidity, TOC, algae, cryptosporidium, giardia, iron, manganese, arsenic, TSS, BOD, and other typical water contaminants. The ACTIFLO® process ensures high quality clarified settled effluent when treating raw water even under difficult conditions such as low temperature.

Wastewater Treatment

ACTIFLO® is a proven process for removal of heavy metals, ortho-phosphorus, suspended solids, fines and associated BOD and COD in a variety of industrial and municipal applications. For industrial applications, mobile pilot systems are available to demonstrate the technology and optimize the performance on site prior to full-scale system design.

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