



evoqua
WATER TECHNOLOGIES



TOW-BRO[®] SELECT SECONDARY CLARIFIER



HEADER DESIGN AND ORIFICE SIZE OF THE UNITUBE HEADER

With the Tow-Bro® Select clarifier, all of the proven advantages of the Tow Bro® clarifier are now available in a standard package which includes many of our premium features.

The highest solids concentrations possible, faster removal rates, lower operating torques, and greater operator flexibility assured by the Tow-Bro clarifier Unitube header means greater capacity, clearer effluent, lower costs and quicker response time to changes in the biological system.

Evoqua Water Technologies has long been the industry leader in processes and equipment for effective sludge removal. The background of more than 75 years of experience can be used to solve problems associated with activated sludge clarifiers such as improper inlet location, inlet jetting, clogged collection pipes, high sludge blankets, high rotational speeds, inaccessible flow adjustment devices, low return solids concentrations, rising solids, and vortexing in shallow sludge boxes causing sludge pumps to cavitate.

The Tow Bro Select clarifier has made it possible to offer a completely preengineered clarifier fitted with premium features ready for rapid production and shipment. This concept will allow Consulting Engineers to maximize their resources while being assured that they are receiving a quality piece of equipment. Engineering and production lead times are dramatically reduced.

Rapid Sludge Removal

For fresher sludge, eliminated denitrification in clarifier, limits phosphate release, less aeration required.

Maximum Solids Concentration

For less WAS and RAS pumping, less unassociated water in aeration and waste handling system.

Minimum Sludge Agitation

For positive removal, longer compaction time, minimum blanket disturbance.

Operation Flexibility

Vary over a wide range of withdrawal rates and blanket depths, AP505 sludge rates quickly, positive control of sludge blanket, can go to "Zero Blanket."

Balanced Removal Design

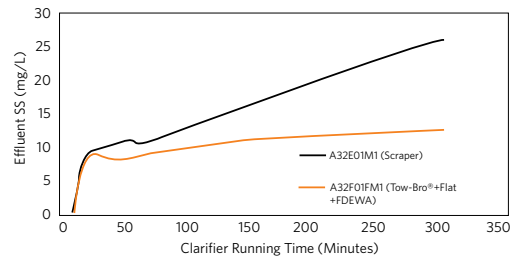
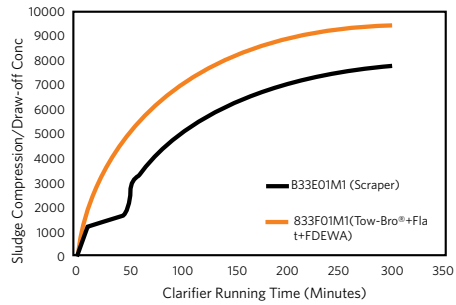
For uniform sludge blanket, removal of sludge in proportion to floor area, optimizes mass loading (up to 60 lbs/day/ft²) (12.3 kg/m²/h) has been achieved, positive blanket control, with a single control.

Flat Floor Design

For lower excavation costs, maximum sludge storage and control capacity, maximum thickening area, uniform solids loading.

A Complete Design Ready to Use

All of the components have been pre-selected. The specifications and drawings are done and ready to be inserted into the treatment plant design. Production can begin immediately upon receipt and acceptance of an order.



CFD modeling has shown that Tow-Bro® clarifiers provide higher RAS concentrations than scraper clarifiers

FEDWA flocculating energy dissipating baffles substantially improve tank hydraulics and aid in lowering Effluent Suspended Solids.

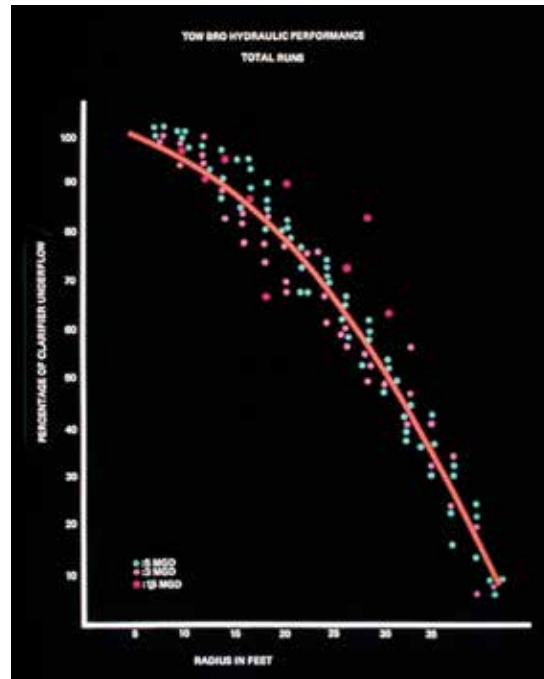
Evoqua has made using our most efficient High-Performance clarifier easier than ever before!

Tow-Bro® Select clarifier offers:

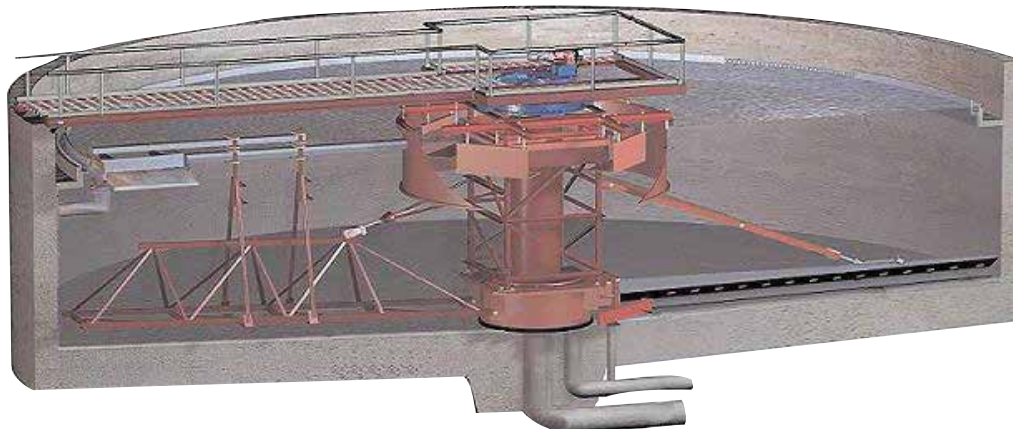
- A complete pre-engineered package ready to be incorporated into your treatment plant design
- Shorter production times for more rapid delivery.
- All of the features of our long proven Tow-Bro® secondary clarifier
- Premium features such as our FEDWA flocculating energy dissipating baffles, premium drive units, and enhanced skimming.
- The reduced capital cost that comes with standardization.

Interested in saving time and money?

Consider the Tow-Bro® Select clarifier.



Field testing has proven our Header design.





Envirex[®]
an EVOQUA brand



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