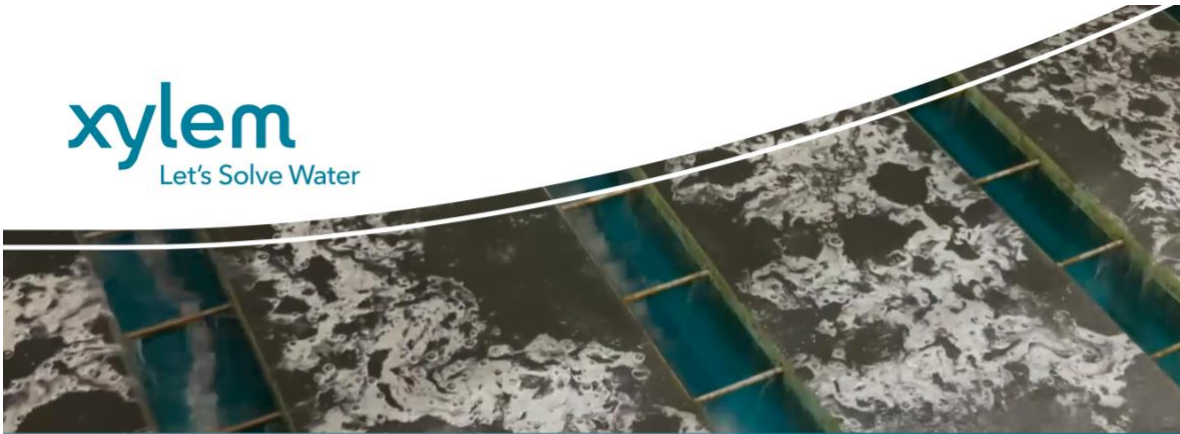




www.GlomacAmerica.com

xylem
Let's Solve Water



Leopold® Fiberglass Wash-Water Troughs

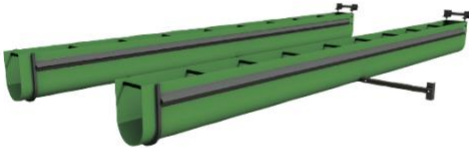
Leopold fiberglass wash-water troughs are employed in water and wastewater filters to provide uniform removal of wash water during backwashing. They are available in a wide selection of carrying capacities to meet any design requirement.

Durability for long service life

Molded of densely laminated fiberglass-reinforced plastic (FRP), Leopold wash-water troughs are corrosion-resistant and constructed for maintenance-free durability and long service life. All mounting brackets, hardware, and stabilizers are stainless steel.

Reinforced for strength and stiffness

Leopold FRP wash-water troughs are designed and manufactured for rigidity and dimensional accuracy. Proportioned for excellent beam strength, Leopold FRP wash-water troughs have triangular-shaped,



 **LEOPOLD**
a xylem brand

www.GlomacAmerica.com



www.GlomacAmerica.com

Leopold® Fiberglass Wash-Water Troughs

longitudinal stiffeners integrally molded into the exterior sidewall for longitudinal rigidity.

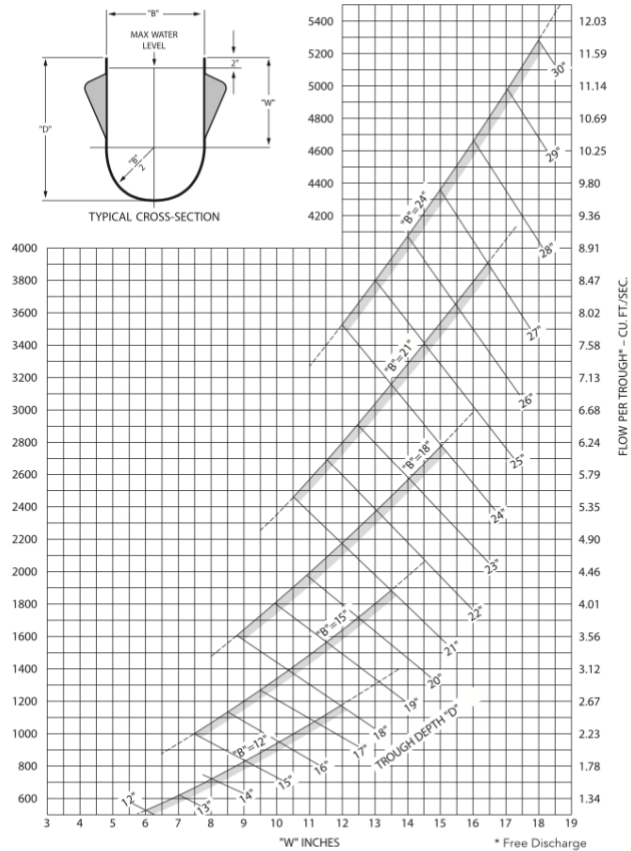
Fiberglass thickness is at least 1½ times the nominal thickness at locations of supports such as saddles, as well as at end flanges and blind ends. One-inch horizontal stiffener bars on 2-foot centers enhance the structural rigidity.

Resin-rich surface for even flow

The inner surfaces of Leopold troughs are smooth, and resin-rich-coated to minimize flow resistance. The top edges of each trough section are level and parallel to the specified tolerances to help uniformly match a still water surface at the desired overflow elevation.

Easy, economical installation

Leopold troughs require no costly forming work. They are available with fixed, adjustable flanged ends, or with integrally mounted water stops. Adjustable V-notch or straight-edge weir plates are also available. The weir plates are made of maintenance-free fiberglass-reinforced plastic, match-die molded to ensure excellent dimensional accuracy.



1200 Leopold Fiberglass Wash-Water Troughs



Certified to NSF/ANSI/CAN 61



www.GlomacAmerica.com



Siphon Pipes
The high-performance, corrosion-resistant siphon pipes are manufactured from stainless steel, further reducing the possibility of oxygen cell corrosion. Vacuum-tight joints are also standard. The siphon pipes form the basis of the structure to the bridge, thus reducing weight, resulting in lower power costs.



Guide Wheels
Inboard and outboard guide wheels on each clarifier bridge ensure maximum unit alignment and stability. Guide wheels on one side are also spring-loaded for better performance and allow for imperfections in concrete tank walls.

Effluent Trough
Effluent and scum troughs are constructed of LeoLite™ fiberglass-reinforced plastic to resist dents, rust, and warpage and to eliminate painting forever.

Idler Assembly
The Clari-Vac floating sludge collector idler assembly features an integral jacking mechanism for ease of cable adjustment.

Drive Assembly
The Clari-Vac floating sludge collector employs a constant-torque, variable-speed DC electric motor and sheave arrangement for its high-efficiency drive assembly, minimizing power requirements for even the largest tanks.

Control Panel
The programmable control panel can accommodate individual facility requirements. The control panel features a stainless steel enclosure (rated NEMA 4X) solid-state circuitry, an integral space heater, and thermostat. Optional equipment is available for severe environments.



Individual Sludge Valves
The flow in each stainless steel siphon pipe is independently controlled to protect against loss of prime. The rate of sludge flow can be controlled exactly to maximize solids content.



Sludge Return
Dense sludge is deposited in the sludge return channel through individual valves, decreasing return rates in activated sludge and minimizing residuals in potable water. The channel flow runs continuously in wastewater systems and semi-continuously in potable water. This channel can be retrofitted for plant upgrades/rehabilitation.

Collection Headers (With Patented Degassing System)
Stainless steel collection headers siphon sludge from the floor of the tank with no stirring action, while the degassing system prevents the loss of flow rate capacity in wastewater systems.



Floating Bridge
Our innovative floating bridge permits the collector headers to float at a minimum clearance of one inch from the floor of the tank. This allows the almost total clearance of sludge from the tanks, if required. Friction to motion is virtually eliminated by the floats, reducing system power costs.



Fiberglass Floats
Floats are polyurethane foam encapsulated in fiberglass. Leopold manufactures and customizes the floats for each installation to achieve optimal performance by weighting them for prevailing hydraulic conditions.

Consider the Many Clari-Vac Floating Sludge Collector Advantages

Lower disposal costs	From the heavier solids concentration
Greater productivity	Removal is fast-up to 12 fpm
Reduced maintenance	No moving parts under water and all parts except drives are nonferrous metals
Energy efficient	Up to 80% less power required than other systems



Quick, Simple Valve Priming
Priming the siphon valves and setting optimal flow control is quick and simple, taking less than two minutes with a standard wet-dry shop-vac.



Simple, Mechanical Skimming Mechanism
Simple, reciprocating blade-and-wear system effectively transfers floating scum to a removal trough.



Trouble-Free Maintenance
The simple but rigid construction of the Clari-Vac floating sludge collector allows for trouble-free maintenance during tank drain-down.

www.GlomacAmerica.com



www.GlomacAmerica.com



Leopold® Clari-Vac® Floating Sludge Collector

Simply Powerful Sludge Removal for Water and Wastewater Treatment Plants



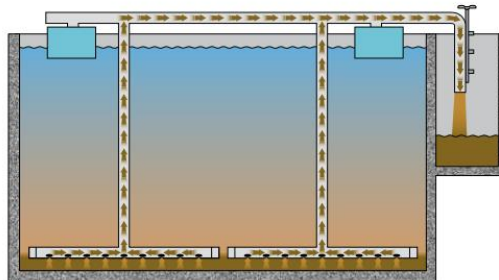
Reliable, Proven Performance

For more than three decades the Leopold Clari-Vac floating sludge collector has proven the optimum choice as a sludge collector for a wide variety of water and wastewater treatment facilities. The Clari-Vac floating sludge collector removes material faster, produces a higher solids content, lowers sludge disposal costs, drastically reduces power costs, and virtually eliminates maintenance. Its exceptional performance is another example of how the Leopold concept of engineered simplicity continues to deliver powerful and reliable solutions for the water and wastewater treatment industries.

Engineered Simplicity

The Leopold Clari-Vac floating sludge collector owes its outstanding and reliable performance to its engineered simplicity. Operating on the basic principles of buoyancy and siphon, collection headers on the Clari-Vac submerged sludge collector “vacuum” the solids that have naturally settled and compacted on the tank floor.

Sludge is then siphoned into a separate trough where it is pumped to waste in water plants or returned to secondaries in wastewater activated sludge applications. There are no moving parts under water and all parts except the drive are nonferrous metals to minimize corrosion potential.



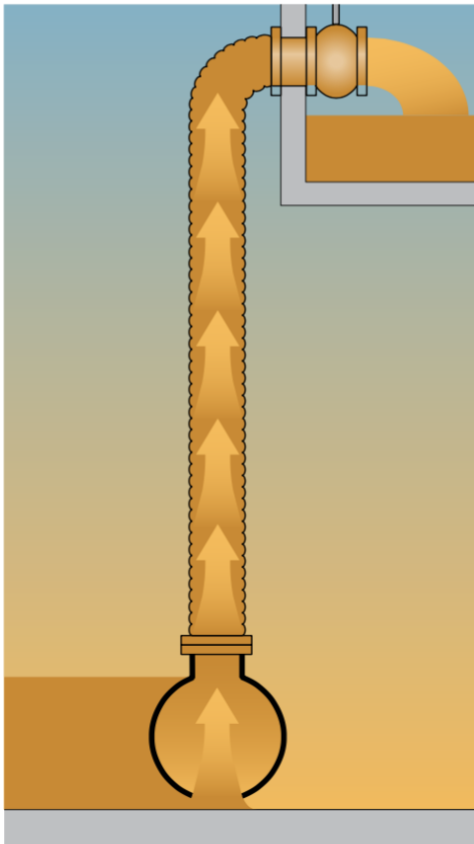


www.GlomacAmerica.com



Leopold® CT2® Submerged Sludge Collector

Superbly Simple, Highly Efficient Sludge Removal
For Water Treatment Plants



Reliable, Proven Performance

For more than twenty years Leopold CT2 submerged sludge collector systems have quietly done their job . . . delivering reliable operation, low maintenance costs, and good sludge production in hundreds of facilities worldwide. The CT2 submerged sludge collection system, distinguished by its engineered simplicity, takes sludge removal to the next level. By simplifying the water treatment process, the CT2 sludge collection system increases plant efficiency, and reduces both maintenance time and total system operational costs. It's simply powerful sludge removal you fit and forget.

Engineered Simplicity

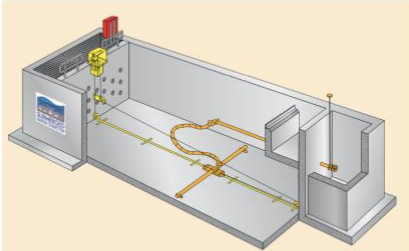
Engineered simplicity is integral to the design of the Leopold CT2 sludge collection system. It operates on a simple principle and a powerful force: gravity. We've designed a superbly simple but highly efficient process to remove sludge by taking advantage of a differential head. Water pressure in the main tank forces the sludge through the header collector into the outlet piping, and away to the sludge removal trough. Careful selection of smooth-bore piping for the suction header keeps head-loss to a minimum for the most efficient sludge removal and low driving head requirements. A simple cable drive moves the suction header across the tank floor at a steady, controlled rate, removing sludge without disturbance. Pumping costs are eliminated and cable drives require far less power.



Fit and Forget

The Leopold CT2 submerged sludge collection system has a "fit and forget" quality that not only simplifies the water treatment process, but also reduces system operation costs. The header, locked onto the guide rail and controlled by a programmable operating system, goes where and when you want it. The cable drive pulls the header through the sludge with a positive motion

and minimal sludge disturbance, removing the sludge without dilution. This reduces sludge volumes and thickening costs, too. And compared to other submerged sludge collectors, the Leopold CT2 submerged sludge collection system is far simpler to maintain because it has a minimal number of moving parts.



The control system can be tailored to meet individual plant requirements and optimize the performance of the CT2 submerged sludge collection system.



The suction header glides over the surface, removing sludge without causing disturbance, maintaining sludge quality.



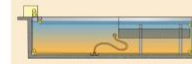
A specially designed swivel on the suction header prevents kinking of the hose.



The suction header is locked onto the guide rail with rollers to prevent disruptive derailments.

Adaptable to a Variety of Plant Requirements

High-Rate Sedimentation



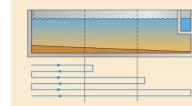
The CT2 sludge collection system can be easily installed or retrofitted into a plate settler or tube settler sedimentation tank. Good quality sludge can then be removed as raw water conditions demand.

Traditional Sedimentation Tanks



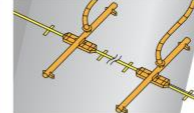
The CT2 sludge collection system is the optimum choice for flat-bottom tanks or tanks with sloped floors. As the suction header glides through the sludge, it removes the settled sludge with minimal dilution and without gross disturbance.

Multi-Pass Control Options



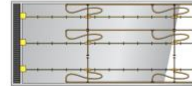
Leopold controls for the CT2 sludge collection system can give each plant the flexibility to meet its individual needs. For example, in sedimentation basins sludge settles unevenly, with more accumulating in the inlet area than in other areas of the basin. Advanced Leopold controls can be programmed to increase sludge removal at the inlet of the tank to even out the sludge load, providing consistent sludge for thickening and disposal.

Heavy Sludge Production



The CT2 sludge collection system can be designed to compensate for high-solids-production water with a double header driven by a single cable system. The travel length of the header is designed to draw the desired amount of sludge from the basin where sludge production is greatest. Double headers also accommodate extra-long basin design.

Flexible Installation Design



The Leopold CT2 sludge collection system can be designed to accommodate extra-wide sedimentation tanks. And each track can be separately controlled to vary the number of passes and the speed of each pass.