

AQUASCRAPER - SL

State of the Art Suction Lift Clarifiers

Do you want complete control of how much and how fresh you want your sludge?

Since building our very first **AquaScrapper-SL** Clarifier in the 1970's, Aquatec-Maxcon has spent over 15 years on research and development. The end result is that our clients can rely on a trouble free clarifier for many many years.

Our design incorporates a peripheral bridge drive with gravity discharge of sludge making a simple and fail-safe operation. Tank sizes can range from a few metres up to 42 metres with 1 radius, full diameter, or 3 radius bridge arrangements.

Design Advantages

- Intrinsic control of sludge flow from individual riser pipes eliminates the need for flow control devices downstream from the clarifier

- Allows for a flat floor construction providing civil works benefits

- Large diameter riser pipes to eliminate blockages

- Full control of sludge withdrawal across the entire clarifier floor

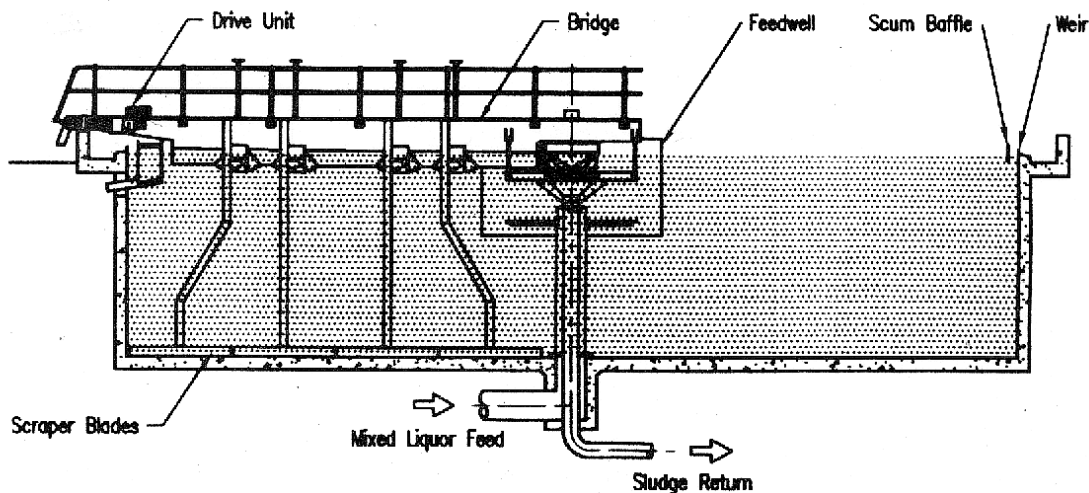
- Special rubber joints between the bridge and central support mechanism eliminates moments induced by uneven tank construction

- Optional hinged riser pipes allow movement in the suction end and hood assembly to optimise settings for uneven floor profiles and inspection

- Open bridge flooring provide operators with a clear view of their control gate adjustments

- Accommodates for both single peripheral and double internal launders

- Proven reliability dispenses with the need for stand by clarifiers in small treatment plants



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- Fresher sludge due to a rapid return
- Eliminates the need for siphons, or other devices that require priming or maintenance

General Design Features

The **AquaScraper-SL** operates with a series of riser pipes fed by a hooded V scraper gliding across the tank floor.

Collected settled sludge discharges from the riser pipes hydraulically through a control gate into a trough formed by the base of the bridge. Sludge then drops into a central discharge to feed the return sludge pump station.

As the bridge trough is submerged within the clarifier, the discharge of sludge is driven purely by the hydraulic difference in water level between the clarifier and bridge trough.

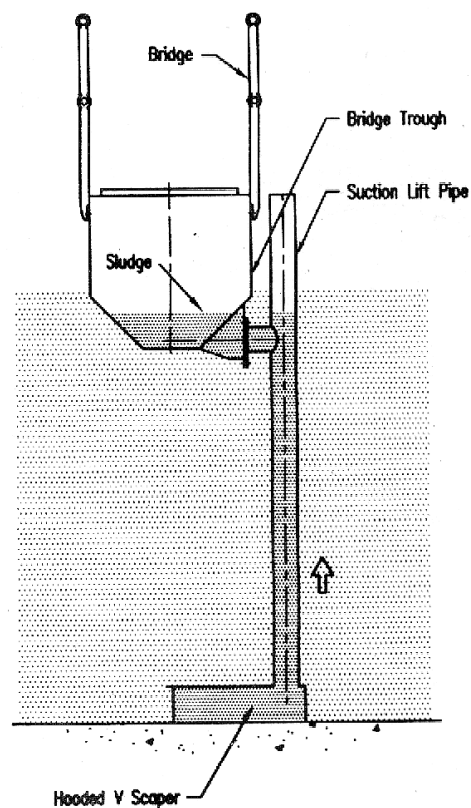
Adjust Your Suction to Suit Your Tank's Natural Profile

- Bridge mechanism is centrally pivoted and peripherally driven through a gearmotor driving the leading wheel of a two wheeled bogie
- Corrosion protection by galvanising, epoxy coating, or both
- Power for the drive is fed through the centre column to multiple slip rings located at the bridge pivot
- Electro-mechanical overload couplings for gearmotor protection

- Low maintenance gearmotor and central bearings
- Automatic regulation of sludge return flow via a simple control valve

Applications

- Oxidation ditch systems
- Activated sludge systems
- Trickling filter systems
- Chemically assisted sedimentation systems
- Industrial wastewater treatment



**AQUASCRAPER - SL
BRIDGE SECTION**

The manufacturer reserves the right to alter performance, specification or design without notice.

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