

COP™ Suction Header Clarifier

Product and Application Summary

Overview:	COP [™] has taken the efficiency and performance of clarifier operations to next level. COP is the total integration of nine proven design features and other parameters that together to maximize a clarifier's performance. WesTech achieves this by customizing all the components of the clarifier to each installation. The CLC18 clarifier uses the following nine design parameters:
	 The clarifiers basin configuration, The center column The WesTech innovative dual gate EDI The flocculating feedwell The density current baffles The Suction Header (s) The Manifold The skimming system The launder cover or launder cleaning system
Applications:	Secondary SedimentationReplacement mechanisms for old organ pipe style clarifiers
Application Range:	Sludge with concentrations between 0.5% and 4%.
	The COP design can be custom created for both new and existing installations and specific elements of the nine key parameters can be retrofitted to existing clarifiers to measurably increase their performance.
Misapplications:	Suction headers should not be used in primary clarifiers or in retro-fit tanks with sloped floors.
Advantages:	 Relatively easy to install Exceptional performing clarifiers when designed with the COP software WesTech's COP software helps engineers in the design process. COP designed clarifiers are more frequently becoming the basis of design on many projects.
Installations:	Over 450 Worldwide mechanism installations.
Configurations:	 Secondary clarification applications with column supported cage drive or bridge supported shaft drive mechanisms Dual or single headers with the option of rake blades on the opposite arm from a single suction header mechanism.



FAQ's: Four innovative products with COP clarifiers:

The COP clarifier design software

The COP software takes into consideration the three basic interrelated objectives of clarification; to maximize the flow rate through the clarifier, producing the cleanest effluent possible, and maximizing the underflow concentration and then balances them to determine proper equipment sizing for each application.

The Dual Gate EDI

The trough allows the cross collector to be able to efficiently transport the sludge to a sump for removal by eliminating losses on the sides of the collector. Sludge collection for basins without troughs can be achieved through siphon pipes or a sludge header system.

Precision Bearing Gear Sets

The WesTech precession bearing drives are designed so that any loading that affects the mechanism is dispersed evenly across all of the bearings around the main gear. Superior load distribution provides longer bearing life.



Images:



