High Performance Dewatering Centrifuges

Centrisys Corporation has always been known for their innovation and design. Their high performance centrifuges for municipal and industrial separation applications are no exception. The Centrisys design incorporates the latest in technology for enhanced performance, reliability and simplistic operation. The Centrisys range covers flow requirements for most users from 5 gpm up to 300 gpm.

The Centrisys high performance centrifuge can be supplied in a complete dewatering system with all the components required for process integrated in one single package!

Features:

- High Solids Capabilities
- Centrifugally Cast Duplex Stainless Steel Design
- Higher Torque Capacity than Other Manufacturers
- Advanced Tungsten Carbide Wear Surfaces
- Lower Installed Horsepower than Other Manufacturers
- NEMA 4X Enclosed PLC Controls
- Touch Screen Interfaces—One Button Start / Stop
- Variable Speed Bowl Drives
- Variable Speed Scroll Drives
- Automatic Cleaning Cycles

centrisys
Centrifuge Systems

Working Principle

The centrifuge is a rotating assembly that uses centrifugal force to separate solids from liquids. Sludge enters the rotating assembly through a stationary feed tube and is discharged in the feed compartment within the conveyor. Here the material is gently accelerated into the chamber of the bowl where the separation takes place. The solids which have settled along the wall of the bowl are conveyed toward the conical end of the bowl where further drying occurs prior to being discharged from the centrifuge. The clarified liquid travels the opposite direction of the solids and is discharged over adjustable weirs into a separate compartment.

Centrifuge Drive

The centrifuge bowl is driven by an electric motor through V-belts. The speed of the centrifuge is adjusted through the use of a Variable Frequency Drive—VFD. The conveyor is driven by a fully automatic backdrive that is completely independent of the centrifuge bowl. The conveyor drive is designed to consistently produce the highest possible cake solids—automatically! This system insures the lowest installed horsepower at the best possible performance.

Construction

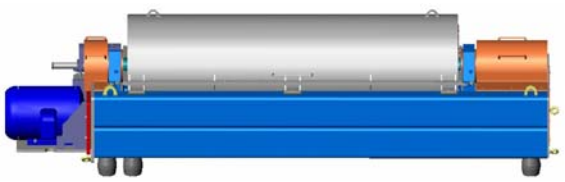
The centrifuge rotating assembly is made from advanced centrifugally cast duplex stainless steel. Non-rotating components which come in contact with the process material are manufactured of corrosion resistant stainless steel. The modular centrifuge base is manufactured from carbon steel with industrial epoxy coatings.

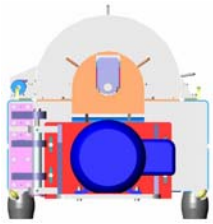
Optimization

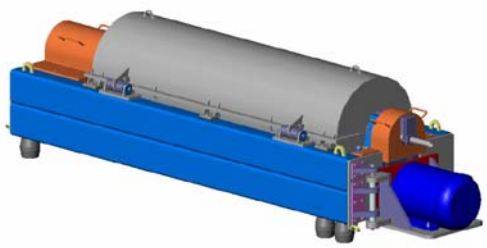
The Centrisys decanters are the most versatile design available. The same units can be used for high solids dewatering or thickening within minutes through a nonproprietary touch screen interface.

Design

The compact in-line design reduces the amount of floor space and overhead height required with the ease of maintenance and operation in mind.







Technical Details	Model CS10-4	Model CS14-4	Model CS18-4	Model CS18-4 HC	Model CS21-4	Model CS21-4 HC	Model CS26-4
Feed Capacity	5-35 gpm	20-60 gpm	50-100 gpm	75-125 gpm	100-175 gpm	150-225 gpm	200-350 gpm
Weight	2,000 lbs	4,200 lbs	6,300 lbs	8,200 lbs	8,500 lbs	9,300 lbs	16,500 lbs
Installed HP	20 hp	40 hp	50 Hp	60 Hp	75 Hp	90 Hp	165 hp
Dimensions—L x W x H	89" x 44" x 27"	122" x 34" x 31"	151" x 44" x 41"	165" x 44" x 45"	167" x 44" x 45"	190"x 44" x 53"	219" x 56" x 60"
G-force	3750 G	3150 G	3000 G	3000 G	3000 G	3000G	3000 G
Bowl Material	Centrifugally Cast Duplex Stainless Steel						

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