

Centrisys Dewatering Centrifuges

High Performance Dewatering Centrifuges

Centrisys Corporation has always been known for their innovative designs. The 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 500 gpm.

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



Features

- High Solids Capabilities
- Centrifugally Cast Duplex Stainless Steel Design
- Highest Torque Capacity
- Sanitary Configurations Available
- Advanced Tungsten Carbide Wear Surfaces
- Lowest Installed Horsepower
- NEMA 4X Enclosed PLC Controls
- Touch Screen Interfaces – One Button Start/Stop
- Variable Speed Bowl Drives
- Variable Speed Scroll Drives
- Automatic Cleaning Cycles



Built in the USA - ISO 9001 : 2008 Certified

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

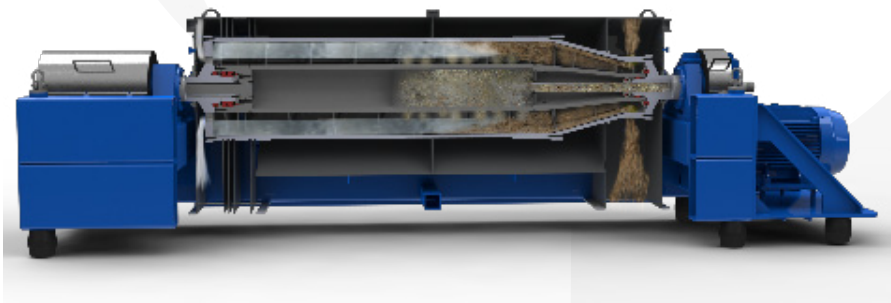
The centrifuge rotating assembly is made from advanced centrifugally cast duplex stainless steel. Non-rotating components which come in contact with the process material are manufactured of corrosion resistant stainless steel. The modular centrifuge base is manufactured from carbon steel with industrial 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	CS10-4	CS14-4	CS18-4	CS18-4HC	CS21-4	CS21-4HC	CS26-4	CS30-4
Feed Capacity (gpm)	5-35	20-60	50-100	75-125	100-175	150-225	200-400	300-700
Cake Dryness	Up to 40% depending on process type and condition							
Weight (lbs)	2000	3800	6500	8200	8500	10000	18100	28500
Total Installed HP	20	40	50	60	75	90	165	275
L x W x H	89"x44"x27"	122"x34"x31"	151"x44"x41"	165"x44"x45"	167"x44"x53"	190"x44"x53"	219"x56"x60"	230"x64"x65"
Auto Lube System	Yes							

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