

Filtering Bowl Centrifuge

Model: SS5



Better than Filters

Bowl Centrifuges Trap Heavier Particles and Liquids with Ease

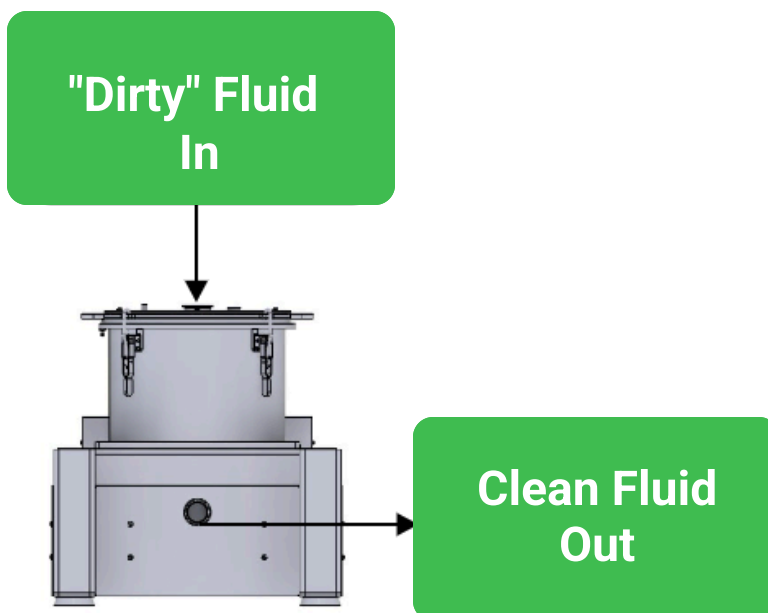
Sometimes they clog too quickly, are expensive to replace or downright messy to work with. When working with smaller micron particles or semi-solid sludge, filters can really clog up quick. Flow is also restricted and causes other issues with blowouts and imprecise filtration.



How it Works

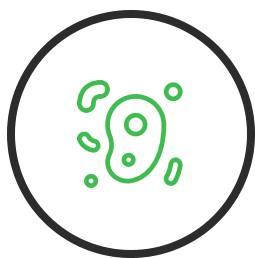
Bowl centrifuges allow for the elimination of filters, bypassing them entirely. They work by a forced separation of the particles and fluids of different densities. The denser fluids, mainly particles, will be trapped in the bowl, while the clean fluid is continually expelled out of the bottom port.

It's a single pass, continuous system that works best with about 5% or less solids needing to be removed. Otherwise the bowl fills up too quick. The bowl holds 2.5 gallons so you'll need a minimum batch size of 15 gallons. Once the bowl collects about 2 gallons of solids/sludge, you'll need to purge or clean it out.



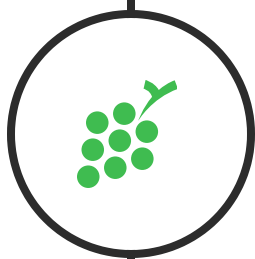
Applications

Works for Separating out Substances of Different Densities



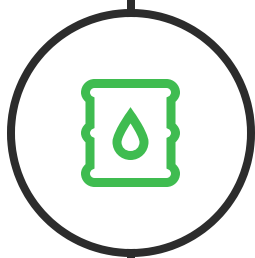
Traps/Harvests Microbials from Solution

Harvest Algae, Bacteria, Yeast and other cells from fluid. The centrifuge will concentrate and capture the small microbes, even less than one micron. The microbe stay in the bowl and can be easily purged out, saving filters and processing time.



Cleans Sediment from Juices and Tinctures

Filter the sediment out of juices and extractions. Fine particles will build up in the bowl while the clean fluid is expelled out the drain. Explosion proof motors available for alcohol extractions.



Purifies Raw and Waste Oils

Remove the gummes, heavy waxes and debris from freshly extracted, virgin oils. The centrifuge will also purify industrial oils, allowing for reuse or recycling.



Solvents, Acids and Bases

The centrifuge can purify caustic or acidic solutions, along with other chemicals. It just works where filters can't.

Specifications

Flow Rate

60 gallons/Hour or 250 liters/hour is the sweet spot. You can go faster with less viscous fluids. It's single pass, so you'll only need to run it through once.

Bowl Capacity

The bowl capacity is 2.5 gallons while spinning, and once it fills up with about 1.5 gallons of solids/semi-solids then it will need to be stopped and purged.

Power

The centrifuge draws up to 10A while running, so a 15A breaker would be advisable on 230V. It will run on 230V, 480V, Single and Three phase.

Materials/Construction

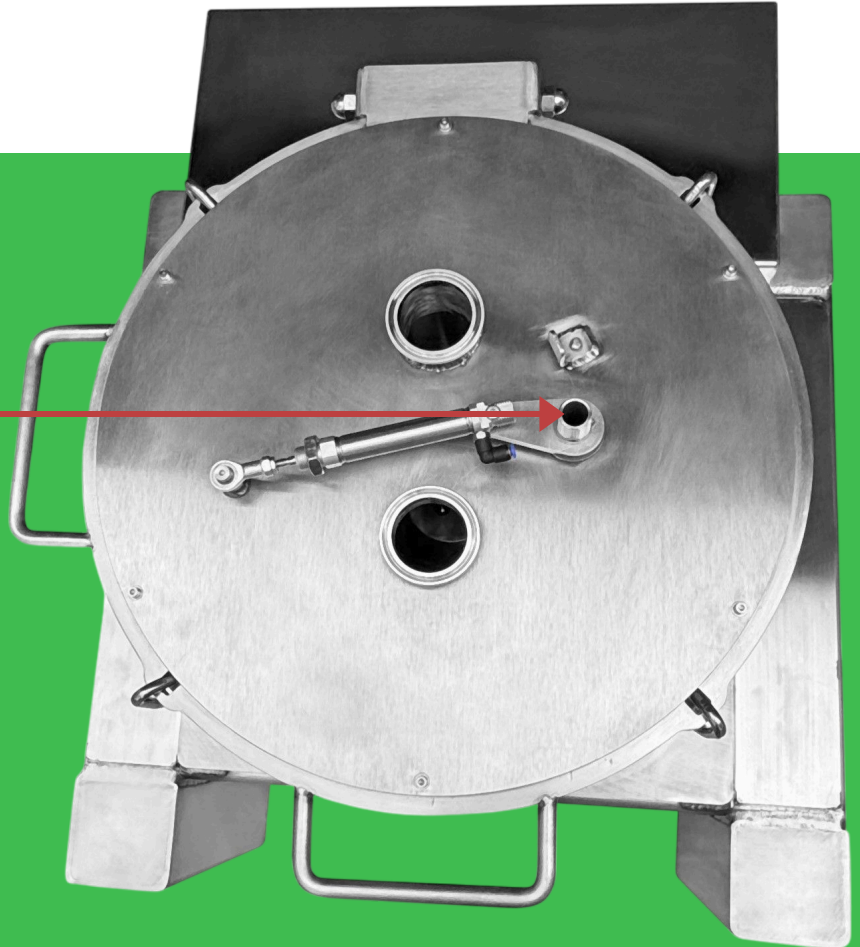
The parts are a mix of 304 and 316 stainless steel. Options for 316 and electropolishing are available. This is a sanitary design and construction with smooth corners and is overall easy to clean. Seals are available in Viton, Silicone, PTFE and Food Grade PTFE.

Size/Weight

The centrifuge weighs approximately 500lbs and measures about 36"W x 28"D x 34"H

Air Purge

Air Purge removes semi-solids from bowl



Bowl Purge

To remove the contents of the bowl there are many options. You can vacuum and scoop it out manually. You can let it drain out of the drain holes. Or you can **PURGE** the bowl with the push of a button. A pneumatic valve activates the purge tube and the force of the bowl pushes the semi solids out with force.



Additional Photos

