M Series Centrifuge

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LOCATIONS

WEST COAST
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3740 NW 124th Ave
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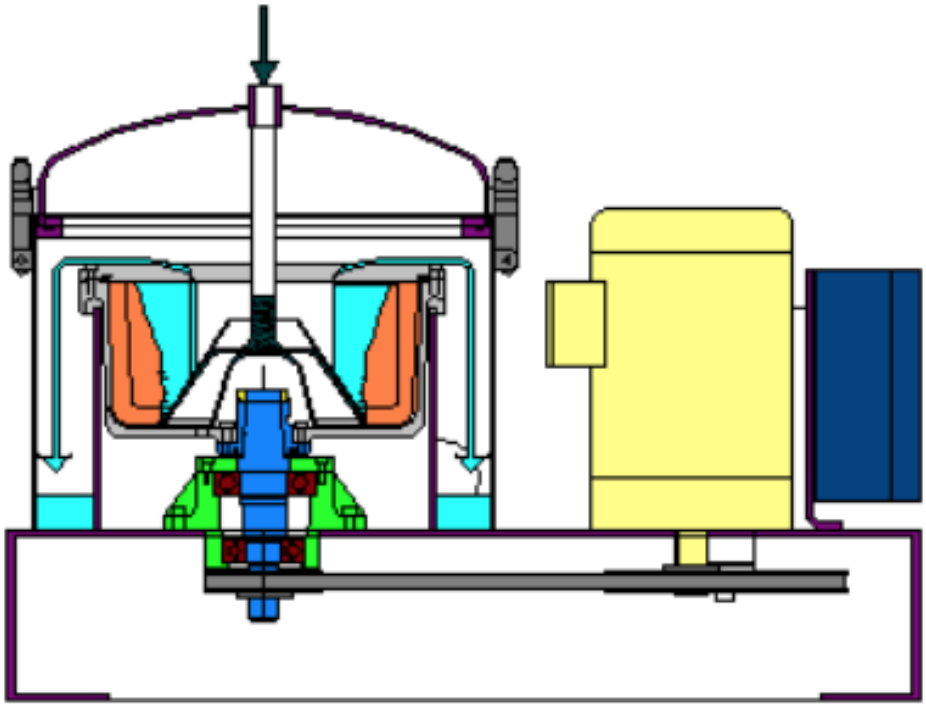
Description:
The Model M512 Centrifuge is a manually cleaned basket centrifuge for separation of suspended solids from process liquid.
The standard centrifuge bowl is a hard anodized precision-machined aluminum assembly that includes a stainless steel feed-cone and impeller mechanism for maximum separating efficiency.
The removable standard bowl liner is made from a durable 100 mil ABS-plastic and includes a bowl-liner lifting tool for easy removal. Replacement plastic liners are affordably priced making spares an economical solution for faster clean outs and less down time. Spare bowl lid SHCS and hex key tool included.

Centrifuge options include:
Stainless steel centrifuge-bowl assembly
Self-draining centrifuge-bowl / bowl-liner Stainless bowl-liner
Complete stainless steel machine frames
Integrated air-powered feed pump
Integrated progressive cavity feed pump
Integrated motor stop / start station
PLC Timer and VFD motor control panel
Lid latch safety inter-lock
Maximum "G" force: 1,500-x gravity
Separating capacity: 1 to 10-gpm
Solids holding capacity: Up to 1.0 gallon
Require inlet pressure: 10-psi @ 10-gpm Liquid inlet fitting: 1" NPT
Liquid discharge fitting: 3" NPT
Liquid discharge height: 28"
Liquid discharge pressure: Gravity return Maximum temperature: 160°F
Standard configuration: 6 to 9-pH
316L Stainless configuration: 2 to 14-pH Noise level: 72 dB (A) per 8-hrs.
Drive Motor: 2.0-hp 3 Ph/220/440 volt Dimensions: 34"L x 18.5'W x 20"H Weight: 400-lbs

Catalog Number	Description
070D-050	Lab, Pilot Scale Centrifuge, M512, 2 HP/230 V/3 Ph/60 Hz



Clean Cycle

After an elapsed time period of process time the bowl liner reaches it solids holding capacity and the machine is turned off coasting to a stop. The hinged enclosure cover is unlatched and opened. The bowl lid is removed from the bowl bottom after unscrewing the four SHCS using the provided hex key tool. Using the provided bowl liner lifting tool, the liner is removed from the bowl bottom. The solids are then scrapped from the bowl liner, which is then cleaned out and put back into the unit to resume operation.

Process Cycle

The dirty liquid continuously feeds through the 1" NPT inlet / feed-tube and into the spinning bowl. The incoming liquid travels under the feed cone and into the bowl chamber where four impeller blades accelerate and maintain the liquid @ full rotational speed. The liquid then travels vertically upward through the bowl. Particles heavier than the liquid separate and move to the perimeter of the centrifuge bowl depositing on the inside wall of the bowl liner forming a dense solids cake that becomes relatively moisture free under accelerated gravitational force. The clarified liquid exits through the center hole in the bowl lid and into the bowl enclosure where it collects and drains out through the 3" outlet fitting.