

Alfa Laval, Sharples P880, P1500 New, Unused Super D-Canter Centrifuge

For pilot plants, pilot labs and small flow rates.

Mars Tech

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Fully integrated, custom designed Alfa Laval, Sharples and Tomoe Decanter centrifuge filtration system on 4' high mounting platform with VFD main and backdrive motor and controls for industrial waste minimization, municipal wastewater thickening and dewatering, chemical and pharmaceutical liquid solid separation and clarification.

Applications

- Clarification of Liquids
- dewatering of solids
- concentration of liquids
- classification of solids

Processes:

- Edible and non edible rendering, Animal Blood
- Fine Chemicals, Chemical intermediates and waste
- Calcium Carbonate, Calcium Sulphate
- ABS Resins, Catalyst Recovery
- Mixed primary raw and waste-activated sludge
- Distillery Stillage, Ethanol Stillage Dewatering
- Oilfield, Drilling Mud
- Waste oil, slop oil
- Petrochemicals, Refinery Tank Bottom Cleaning
- Fish Oil, Fish Meal
- Food and dairy processing effluents
- Tea, coffee, Lactose
- Municipal wastewater
- Sludge thickening and dewatering
- Pulp and Paper mill effluents
- PVC Dewatering
- Vegetable Oils
- Aerobic/anaerobic digestion sludge

Working Principle:

Typically a decanter centrifuge consists on a cylindrical and conical bowl sections on pillow block bearings. Centrifugally separated solids collect on the periphery of the bowl and are moved and discharged through sludge ports in the conical bowl section by means of a conveyor or scroll of the same contour within the bowl. The separation can be arranged for either clarification or purification. The relative speed between the bowl and the scroll is controlled by a planetary or cyclonic gearbox which is an integral and most important part of the decanter centrifuge. The scroll is generally hard surfaced for wear and erosion protection.



Specifications:

- 9" Diameter Bowl, Max 4800 RPM
- Tungsten Carbide Tiles on stainless steel scroll conveyor
- Main Drive: 10 HP, 230/460/3/60 Hz, TEFC. On adjustable base
- Back drive: 3 HP, 230/460/3/60 Hz, TEFC. On adjustable base.
- Motor Control panel - VFD for Main and VFD for Back drive motor
- 4' high Mounting Platform: Common sub-base for Machine and Motors
- Automatic Back drive Control
- Control Panel for CIP
- Special Tools and Spares
- Instruction Manual
- Start Up Services

Special Features:

- Includes Sharples patented BD feature
- Enable the Super-D-Canter to discharge ultra-fine, gelatinous or soft slippery solids.
- The 'BD' design of conveyor enables the Super-D-Canter to operate at ultra- deep pond settings-above the level of the solids discharge- by creating a sludge barrier.
- The ultra deep pond operation has a dual effect: It compacts the solids and assists in scrolling AND it creates a hydro dynamic pressure which extrudes the sludge barrier past the BD feature and out of the centrifuge.