Design Criteria

• Make it Simple
  – Reduce the number of moving components

• Make it Reliable
  – Eliminate wear components and reduce maintenance intervals

• Make it Efficient
  – Keep the fluid quiet

• Make it Tough
  – All Wetted Parts 316 Stainless Steel
  – Oversized Bearings
Traditional Two Motor Design
CentraSep “THE” Single Motor Centrifuge

- Single Motor
- All Stainless Steel
- Positive Locking Clutch
- Bottom Process Feed
- Bearings Outside of Fluid
- Bottom Solids Discharge
- Lifetime Warranty Option
Mechanically Simple

- All moving components, excluding the motor and one cylinder, located in Rotor sub-assembly
- Quick change rotor assembly ensures maximum uptime.
How CentraSep Works
2 Primary Cycles – Process (collection) and Scrape (discharge)
How CentraSep Works – PROCESS CYCLE

- Clutch Engages Bowl & Blades
- Motor Drives Rotor Assembly
- Dirty Fluid Injected Into Rotor
- Clean Fluid Gravity Drains
How CentraSep Works – SCRAPE CYCLE

Clutch Engages
Bowl & Blades

Motor Drives
Rotor Assembly

Solids Discharge
Vertically Integrated Manufacturing

Machine Shop

Panel Shop

Service & Support

Quality Enhancement

Revolutionizing Liquid Separation
A Division of Advanced Separation Technologies
Complete Engineering & System Design

Standard System

Complete System
CentraSep Service & Support

- All Manufactured Components in Stock
- Complete Rotor Assemblies in Stock
- Standard Electrical Components in Stock
- Full Service Staff
- Rebuilt Rotor Exchange Program
- LIFETIME Warranty Option Available
CentraSep Warranty & Rotor Exchange Program

1. Remove 8 Rotor Plate Bolts
2. Remove Two Air Quick Disconnects and Cylinder Switch Cable
3. Loosen 4 Motor Bolts and Remove Belt
4. Remove Rotor

Revolutionizing Liquid Separation
A Division of Advanced Separation Technologies
CentraSep Service Quality Unmatched

1. Dismantle
2. Rotor Exchange
3. Assemble & Run
4. Inspect, Quality Control
5. Birth Certificate
6. Inventory Control
7. Engineering Review Quality Improvement
CentraSep and the Glass Grinding Industry

- CentraSep initial Glass install – 2000
- Glass Filtration represents 41% of all units in service
- CentraSep located in 16 countries around the globe in glass fabrication
- Since 2010, 59% of CentraSep Systems put into service have been in Glass Grinding Filtration – Flat, Precision, Automotive, Aerospace and Solar

CentraSep becomes “BEST PRACTICE”

- Goal every installation is to become our customer’s “Best Practice”.
- Engineered for reliability, ease of maintenance, simple installation.
- Backed by service and support with Lifetime Warranty option.
- Nearly 63% of units installed in last 5 years have come from existing clients.
Unparalleled Separation Efficiency

• Looking up from the bottom
• 1” Inlet Pipe Ensures no Chance of Plugging
• Accelerator Brings Fluid to Rotor Speed
• Positive Locking Clutch Eliminates Blade Oscillation and Fluid Slip
• Four (4) Blades Isolate Fluid into Four Zones
• As Low as Sub-Micron Solids Removal
CentraSep Glass 3 Tank Design (Front View)
# CentraSep®

## DIMENSIONS & SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MODEL NUMBER</strong></td>
<td>CentraSep® 2006-SP</td>
</tr>
<tr>
<td><strong>ROTOR SPEED</strong></td>
<td>Variable to 3000 RPM</td>
</tr>
<tr>
<td><strong>GRAVITY FORCE</strong></td>
<td>Variable to 2012 G’s</td>
</tr>
<tr>
<td><strong>SOLIDS HOLDING CAPACITY</strong></td>
<td>6.34 Gallons</td>
</tr>
<tr>
<td><strong>ELECTRIC MOTOR</strong></td>
<td>10HP, TEFC, Hostile Duty</td>
</tr>
<tr>
<td><strong>ELECTRICAL SERVICE</strong></td>
<td>480 volt, 3 Phase, 30 Ampere</td>
</tr>
<tr>
<td><strong>CONTROL PANEL</strong></td>
<td>NEMA 12</td>
</tr>
<tr>
<td><strong>PLC</strong></td>
<td>Allen Bradley / Siemens</td>
</tr>
<tr>
<td><strong>AC DRIVE</strong></td>
<td>ABB ACS 800 Direct Torque Control</td>
</tr>
<tr>
<td><strong>STAND</strong></td>
<td>Carbon Steel, 4” tube</td>
</tr>
<tr>
<td><strong>HOUSING</strong></td>
<td>316 Stainless Steel: All wetted parts</td>
</tr>
<tr>
<td><strong>ROTOR</strong></td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td><strong>SCRAPER BLADE</strong></td>
<td>316 Stainless Steel: 4-Blade</td>
</tr>
<tr>
<td><strong>STAND</strong></td>
<td>5’ L, 5’ W, 50” H, 3/8” WALL</td>
</tr>
<tr>
<td><strong>CENTRASEP</strong></td>
<td>47.25” L, 27” W, 53.75” H POWDER COATED</td>
</tr>
<tr>
<td><strong>CLEAN DISCHARGE PORT</strong></td>
<td>6” TUBE, 58” TO CENTERLINE FROM FLOOR</td>
</tr>
<tr>
<td><strong>DIRTY FEED PORT</strong></td>
<td>1” NPT, 66” TO CENTERLINE FROM FLOOR</td>
</tr>
</tbody>
</table>
Results & Benefits with CentraSep

- Increased Production Uptime & Reliability
- Extend Tool & Fluid Life
- Hold Tighter Tolerances
- Low Maintenance
- Reduced Chemical Usage
- Superior Edge Quality
- Environmental Friendly solution that makes Economic Sense “Environomic”
Global Presence

Australia
India
Italy
New Zealand
Brazil
France
China
Argentina
Canada
Germany
Mexico
Luxembourg
Turkey
Hungary
Malaysia
Poland
United States
Indonesia
Slovakia
International Waters
- Ships & Oil Rigs
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