The AVEKA CCE Technologies Centrifugal Air Classifier is designed to separate fine particles in the less than 75 µm range. This is achieved by utilizing the opposed forces of centrifugal force and aerodynamic drag to sort the particles by mass, resulting in a coarse particle fraction and a fine particle fraction. The Classifier is able to achieve a precise, predictable, and extremely sharp separation at a high solids loading. The Model 100 Classifier system is ideal for the production of lab samples, product development and/ or small quantity production. The larger Model 250 and Model 500 offer precise classification at higher production rates.
OPERATING PRINCIPLE

The AVEKA CCE Technologies Classifier operates as follows: The space between the outer edge of the blades and periphery of the rotor forms the classification zone. The coarse particle fraction, which is rejected outward by the centrifugal field, is conveyed out of the classifier through the coarse outlet and captured in a cyclone. The cyclone overflow is returned to the Classifier through the recycle port. The fine particle fraction leaves the Classifier through the central fines outlet with primary air flow.

Our Classifiers come complete with all the major components necessary for classification of dry powders in the less than 75 micron size range. A typical system includes the Classifier assembly, flow source, coarse and fine fraction collectors, feed system and controls. Component selection and design are application specific to meet your requirements.

AVEKA CCE Technologies specializes in toll processing and custom equipment in the area of jet milling and air classification.

TOLLING GUIDELINES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>100</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum run quantity*</td>
<td>200 g</td>
<td>10 kg</td>
</tr>
<tr>
<td>Preferred run quantity*</td>
<td>500-5000 g</td>
<td>225-450+ kg</td>
</tr>
<tr>
<td>Typical throughput**</td>
<td>100 - 400 g/hr</td>
<td>45 - 180 kg/h</td>
</tr>
</tbody>
</table>

* For test runs on equipment installed at AVEKA CCE Technologies
** Rates are dependent on materials and conditions

Dust combustibility suppression system available

EQUIPMENT FOR SALE SPECS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>100</th>
<th>250</th>
<th>500</th>
</tr>
</thead>
</table>
| PERFORMANCE RANGE*
Cut Size (D50), Microns** | 1-30 | 1-50 | 2-50 |
Sharpness (D25/D75) | .6 - .8 | .6 - .8 | .6 - .8 |
Feed Rate, kg/hr | To 15 | To 225 | To 900 |
OPERATING RANGE
Rotor Speed RPM | 700-7000 | 400-4000 | 360-3600 |
Primary Air Flow, SCFM | To 70 | To 250 | To 800 |
Max. Operation Vac, In. Hg | 12 | 12 | 12 |
Rotor Drive, HP | 1.5 | 3 | 15 |
Primary Flow Source, HP | 7.5 | 25 | 75 |

* Depending on feed material characteristics, desired cut size, and solids loading
** At particle density of 2.6 gms./cc.