

Mikro[®] Acucut Air Classifier

The Mikro[®] Acucut Air Classifier utilizes dual stage operating controls to ensure sharp cuts and narrow band particle size distributions typically below 10 μm . With precise control of the air flow and rotor speeds this unit will produce the same sharp cut every time.

Options are available for effective control of product contamination, protection against corrosion, handling abrasive materials and classifying adhesive powders.

Design & Options:

- High energy dispersion
- Laboratory, Pilot & Production models available
- Ideal for temperature sensitive products
- Reproducible results from batch to batch
- Tight band widths/ distributions
- High recovery on coarse fractions
- Easy cleaning & compact design
- Easily fluidizes high density materials
- 316 or 316 L stainless steel construction available
- Abrasion protection options



Models	Use	Rotor HP	Feed Rate
A-12	Laboratory Scale	1	0.1 - 20 lbs/hr
B-18	Small Production	5	20 - 400 lbs/hr
C-24	Large Production	15	100 - 3,000 lbs/hour

The Mikro[®] Acucut Air Classifier is a forced vortex classifier designed to disperse, then classify, fine particles into coarse and fine fractions. Extremely high dispersive energy applied to the process material ensures unparalleled yields even with sticky and difficult to disperse products and ensures that the maximum percentage of fines are reclaimed.

High-energy dispersing air enters the rotor radially around the entire outer edge at the dispersion tips, while feed particles enter this 360-degree dispersing air zone through an inlet in the rotor ring. In the classification zone, particles are acted upon by an outwardly directed centrifugal force and an inwardly directed drag force. Air carries the dispersed fine particles spirally inward to the central fine fraction outlet. Coarse particles move outward around the rotor periphery to the coarse fraction outlet. Entrained fines are recycled from the coarse cyclone collector back to the classifier. The desired cut point is selected by adjustment of airflow rate, rotor speed or both.

Typical Applications

- Chromatography Materials
- Alumina
- Silica
- Toner
- Ceramics
- Metal Powders
- Pharmaceuticals
- Plastics



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