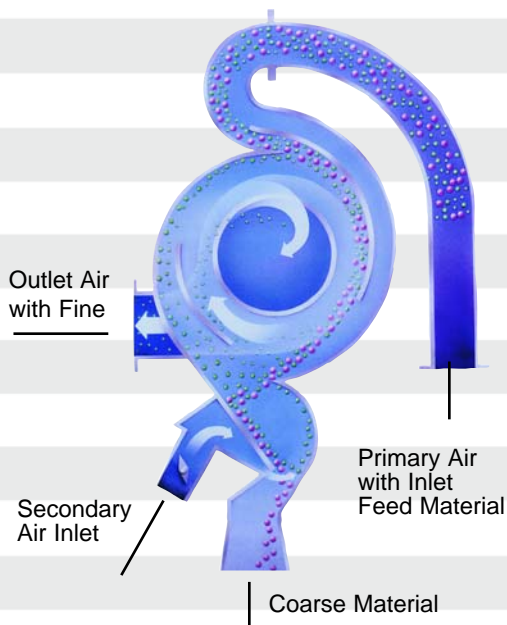


INDUSTRIAL CLASSIFIERS FOR POWDERS & MINERALS



The Power of Simplicity Static Air Classifiers

Centrifugal Industrial Classifiers

These Buell units employ centrifugal forces, similar to cyclones, to separate particles at cut points between 5 and 100 microns. A series of internal baffles apply drag forces to the coarse particles while allowing air to pass through them, resulting in separation of the fines. The heaviest particles drop to the bottom of the classifier where they are discharged through a valve.

Prior to the discharge, secondary air is injected and passes through the material, and particles near the cut

point in size are returned to the circulating chamber. The fine particles travel a spiral path into the outlets located on each side of the unit. The two air streams combine and enter a cyclone for final recovery of fine particles.

Buell Classifiers New HEC Static Classifiers

This Centrifugal Air Classifier utilizes the same basic principles as the traditional centrifugal classifier with an important alteration. The internal aerodynamics have been modified by changing dimensions, resulting in a finer micron separation.

Model #	Volume cfm
GI-6	800
GI-12	1,600
GI-24	3,200
GI-36	4,800
GI-48	6,400
GI-60	8,000
GI-72	9,600
GI-84	11,200
GI-90	12,000
GI-96	12,800
GI-108	14,400

Advantages:

- 5-30 micron separations
- No moving parts within material flow stream
- Low cost alternative to rotary classifiers

Buell®

CLASSIFIER

FISHER-KLOSTERMAN 

A CECO Environmental Company

Advantages of Buell Classifiers:

- 10 mesh to 5 microns
- No moving parts
- Easily adjusted for changes in product requirements
- Low capital cost
- Minimum maintenance requirements
- Lined for erosion protection

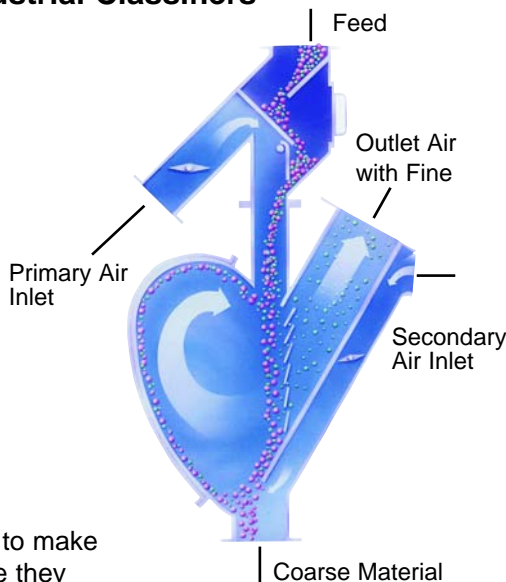
Rock Solid Guarantee

CECO
CECO Environmental

INDUSTRIAL CLASSIFIERS FOR POWDERS & MINERALS

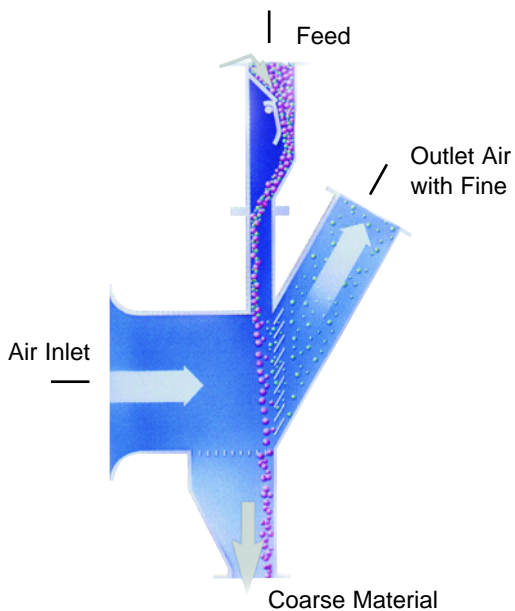
Gravitational Inertial Industrial Classifiers

These Buell units effectively combine gravitational, inertial, centrifugal and aerodynamic forces to classify materials at cut points ranging from 50 to 200 mesh (300 to 75 microns). The feed material and primary air enter the top of the classifier in a downward direction. The air makes a 120 degree change in direction and exits through the vanes, carrying fine particles with it.



The coarse particles, too heavy to make the turn, fall to the bottom where they are discharged by a valve. Secondary air, injected below the vanes, passes through the curtain of falling particles. Those particles near cut point in size are diverted by the secondary air stream into an eddy current within the heart-shaped chamber. Fines captured as they enter the unit as well as others drawn from the eddy are carried by exiting air to a fabric filter for final recovery.

Gravitational Industrial Classifiers



These intelligently engineered units are ideal for classifying coarser cuts ranging from 10 to 100 mesh. The feed material is dropped into the top of the classifier. It falls in a continuous feed curtain in front of the vanes, passing through low-velocity air entering the side of the units. The air flow direction is changed by the vanes from horizontal to angularly upward, resulting in separation and classification of the particulate. Coarse particles are efficiently discharged through a valve beneath the unit. The fines are conveyed by air to a fabric filter for final recovery.

Materials Classified:

- Alumina • Bacteriostat
- Catalyst • Cement
- Chrome Ore • Coal
- Diatomaceous Earth
- Dicalcium Phosphate
- Fertilizer • Fly Ash
- Gold / Silver Dust
- Granular Chemicals
- Instant Coffee • Iron Ore
- Lime • Limestone
- Magnesite • Phosphate Rock
- Plastic Pellets • Potash
- Rock Salt • Salt • Silica
- Soda Ash
- Trisodium Phosphate
- Zinc Powder

Buell[®]
CLASSIFIER

FISHER-KLOSTERMAN 

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