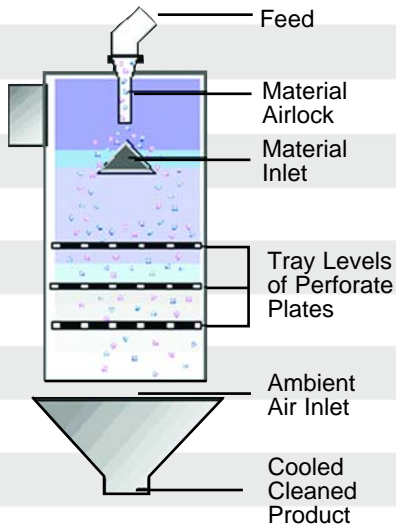


ECONO-FLOW COOLER



Custom-Engineered Specifications:

The Econo-Flow Cooler is customer designed and manufactured to meet a host of material cooling requirements. Specifically, the Econo-Flow Cooler is designed to air-cool granules, pellets, powders, prills and other free-flowing materials in particle sizes up to 1/4 inch diameter utilizing a high-efficiency counterflow operation. Each compact unit cools material to within 20°F of inlet gas temperature. Gas exit temperature is within 30°F of material inlet temperature.

The Econo-Flow Cooler extracts more BTUs from material for a given quantity of air in one fifth the time of a rotary drum cooler with installation at less than half the price. This results in less dust loss and permits the use of compact collection equipment. Because the MET cooler occupies less than 20% of the space required for an equivalent rotary cooler, it is an ideal solution as an addition to congested plot plans.

Simplicity of design and lack of moving parts permits construction of the cooler shell and tray from any material required by the process. Lack of contact between the shell and the material permits the use of protective epoxy paints on internal surfaces to prevent corrosion. The cooler casing is vertical and can be square or round, self-supporting or hung.

Field Proven, High Efficiency Operation:

For systems operating on ambient air, air is introduced peripherally at the bottom of the cooler and withdrawn at the top through a gas outlet duct located above the material inlet and distribution cone. Hot exhaust gases then pass through a collector(s), a fan and then vents to the atmosphere.

Material to be cooled is introduced into the material distribution system at the top of the cooler. The distribution system conforms to the feeding arrangement preceding the cooler. In most instances, the spreader airlock arrangement consists of a funnel shaped inlet piece discharging into a vertical pipe. Carefully engineered proportions assure that the feed acts as a material curtain to block off ambient air leakage. The material falling down the pipe impinges on a perforated distribution cone that spreads material across the cooler. The distribution system requires no adjustment for variable feed rates or material changes.

Material retention time is obtained by the formation of dense phase fluidized beds measuring three to six inches in depth on a series of perforated plates.

Rock Solid Guarantee

ECONO-FLOW COOLER

Design & Performance Features:

- **Space Saving Economy**
- **Simple Operation** - no moving parts except for a fan handling clean air
- **No Product Degradation** - material is cooled by being gently lowered on a cushion of air through a fluid-bed tray, utilizing controlled velocities.
- **Instant Product Changeover** - air action provides material retention. Dampening or turning off the fan assures immediate and complete discharge of all material.
- **Dust-Free, Clean Air** - controlled air flow and material distribution assure good cleaning action and removal of particles below the air flow space rate designed for the cooler.
- **High-Efficiency, Counterflow Operation** - product and exit gas temperatures are established by the number of stages incorporated in the cooler.
- **Low Power Consumption** - the Econo-Flow Cooler eliminates the need for an additional motor with speed reducer which amounts to 20-50% of fan horsepower.
- **Flexible Layout** - fan and collector can be connected directly or located to suit plant layout. No elaborate or detailed foundations required. System operates on positive pressure where treated air or gases are required by process.
- **Extra Capacity** - The cooler is sized for optimum efficiency at a specified feed rate. Increasing retention time by changing trays or the number of trays and by accelerating fan horsepower provides added cooling or higher feed rates.



Buell[®]
CLASSIFIER

FISHER-KLOSTERMAN 

A CECO Environmental Company

200 North Seventh Street, Suite 2
Lebanon, PA 17046
Deliveries to:
203 N. 5th Street

Phone: 717.274.7303
Fax: 717.274.7342
buell@fkinc.com
www.buellclassifiers.com