Since 1981, Applied Chemical Technology (ACT) has provided high quality, low cost fluid bed solutions to clients around the globe.

Our fluidized beds serve many industries producing industrial chemicals, fine chemicals, fertilizers, food, pharmaceuticals, cosmetics and more. Over the years, our experienced engineers, designers, and craftsmen have built hundreds of fluid beds and fluid bed systems.

Our experience enables us to efficiently design and fabricate the perfect fluid bed or fluid bed system to integrate into your existing plant or for your new processing plant. We also have bench scale and pilot plant scale equipment available on-site to generate the data required to size your piece of equipment and test your process.

Materials of Construction: Carbon Steel, Stainless Steel, or Specialty Alloys
Sizes: ¼ ft² to 1000 ft²
Capacities: 4 lbs/hr to 50 tons/hr
Upper Temperature Limit: 1400° F
Batch Fluid Bed
ACT Batch Fluid Bed Systems support a wide range of process applications including:

- Cooling
- Mixing
- Impregnating
- Coating
- Drying
- Heating
- Granulating
- Agglomerating
- Reacting
- Decontaminating

FLUIDIZED BEDS FOR GRANULATING, COATING, THERMAL PROCESSING, AND REACTING

Since 1981, Applied Chemical Technology (ACT) has designed and fabricated state-of-the-art batch fluid bed systems. Through the years, our technology has changed with current breakthroughs to provide fluidized beds used for coating, agglomerating, granulating, drying, classifying and more. ACT builds batch fluid beds beginning at a 5 liter bowl capacity. Our standard models may include explosion protection and solvent recovery, and all models can be further customized as needed.

ACT also designs and fabricates custom fluid bed systems based on a client’s process. We develop process and product specifications in our lab or pilot plants; and then engineer, design, and fabricate a custom batch fluid bed system for that process. However, if it makes economic sense for our clients, we will recommend customizing one of our standard models instead.
ACT Continuous Fluid Bed Systems are ideal for a wide range of process applications including:

- Coating
- Drying
- Reacting
- Granulating
- Agglomerating
- Spray Drying
- Heating
- Conveying
- Impregnating
- Prilling
- Sizing
- Cooling

Applied Chemical Technology’s Continuous Fluid-Beds offer nonstop production capabilities for almost unlimited process applications. Our versatile range of fluid-bed sizes can meet any need, from research and development operations to full-scale production plants. Bring the unique advantages of ACT fluid-bed technology to your process with a Continuous Fluid-Bed from Applied Chemical Technology.

**Standard Features**

ACT’s exclusive air distribution plenum for even fluidization
Replaceable distributor plate
  - Standard plate punched to your materials requirements
  - Wide range of open areas
Adjustable material retention dam
  - 1” height increments, up to 12” total bed depth
Differential pressure gauge
Multi-function removable access door
  - Access
  - View port
  - Sample port (atmospheric operation only)
Window at discharge end
Bolted plenum access door
Wash out drains
End air feed
Pressure ± 20” water column
Handles materials up to 90 lbs/ft³ bulk density
Up to 250° F operating temperature standard
Can be configured to operate under positive, negative, or atmospheric pressures
Carbon steel construction, primed and painted
Combination Fluid Bed/Baghouses

Applied Chemical Technology’s (ACT) Combination Fluid Bed/Baghouses integrate process operations and environmental control into a single unit, reducing space requirements and allowing greater flexibility in plant layout. The continuous operation design offers non-stop production capabilities for a wide range of process applications, while the integrated baghouse easily captures undersized particles for elimination or recirculation. We offer a versatile range of fluid bed sizes to meet any need, from research and development operations to full-scale production plants.

Materials of Construction: Carbon Steel – Optional Stainless Steel or Specialty Alloys
Capacity: Up to 50 tons/hr
Temperatures: Standard up to 250°, Optional Systems up to 1400° and more
Product Densities: Up to Bulk Densities of 90 lbs/ft3 or more

To find out more about our services or to discuss your project with an ACT engineer, you may contact Applied Chemical Technology by phone, mail, email, or web from. All initial consultations are strictly confidential and free of charge.

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