



ACT Fluid Beds



FLUID BED COATERS, GRANULATORS, DRYERS, REACTORS, HEATERS

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.

ACT Fluid Beds

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

Batch Fluid Bed Systems

ACT Batch Fluid Bed Systems support a wide range of process applications including:

Cooling

Mixing

Impregnating

Coating

Drying

Heating

Granulating

Agglomerating

Reacting

Decontaminating



100N Fluid Bed



PG-100 Fluid Bed



300XP Fluid Bed



300N Fluid Bed



100XP Fluid Bed

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.



Continuous Fluid Bed Systems

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

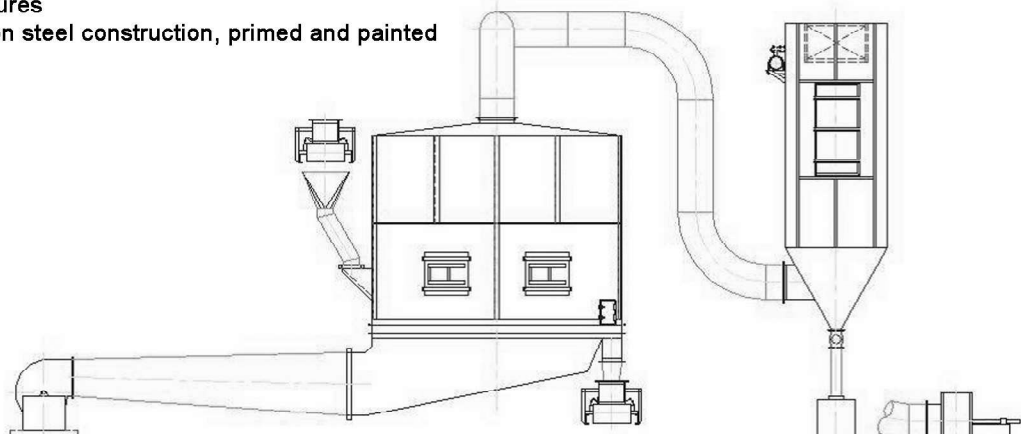
Pressure $\pm 20"$ water column

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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