



FLUID BED DRYER

48⁺ Years
Of experience



In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions

WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.

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Enhance the value of customer operation through our customer need centric engineering solution.

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TRUSTED PARTNERS





Fluid Bed Dryer

Fluidized bed is achieved by passing a gas stream from the bottom of a bed of particulate solids. At low velocity of gas the bed stays in static condition, and the particles lay on a gas distributor plate. The fluidizing gas passes through the distributor and it is uniformly distributed across the bed.

The gas velocity is increased such that to achieve the fluidization of bed, gas velocity at which the bed achieves the fluidization is known as minimum fluidization velocity.

A Fluidised bed dryer operates at gas velocity higher than the minimum fluidization velocity of material under processing. This increase in the gas velocity result in suspension of particles under processing in air, this appears as the boiling of solid particles of material under processing

Features

- Modular Design.
- High drying efficiency.
- Fireproof Construction.
- Provides extended residence times.
- Materials dried in a constant-rate drying.
- Uniform Drying with reducing Drying time.
- Easy to remove/change heat exchanger.
- Flexibility of residence time and temperatures.

- Drying of material with low moisture content, under a relatively low temperature.
- Suitable for granules or crystallized materials as there is no damage to particles.

Advantages

- Fluidized bed dryer requires less time to complete drying. i.e., 20 to 40 min.
- Hot spots are not observed in the dryer, because of its excellent mixing and drying capacities.
- The thermal efficiency is 2 to 6 times greater than tray dryer.
- It facilitates the drying of thermolabile substances, since the contact time for drying is short.
- The free movement of individual particles eliminates the risk of soluble material migrating as may occur in static bed.
- It can be used either as batch type or continuous type.

Application

- Kerone's fluidized bed dryers are commonly used in processing of:
 - Chemical
 - Food
 - Carbohydrates
 - Ceramic
 - Beverage Products
 - Fertilizers
 - Polymer and Resins
 - Agriculture and Animal Feeds

- Tannins
 - Combustion
 - Incineration
 - Products for Calcination
 - Pesticides and Agrochemicals
 - Pharmaceuticals in Powder or Agglomerated Form
- Health- Care Products
 - Dyestuffs and Pigments
 - Waste Management Processes
 - Detergents and Surface-Active Agents
 - Environmental Protection Pro- Cesses

Technical specifications

Minimum Order Quantity	1 Unit
Design	Customized
Max Temperature	200-400 Deg C
Control System	PLC
Optional Features	Automatic CIP system
Material Feeding Options	Rotary Feeder, Screw Feeder
Product Recovery System Configurations	Cyclone Separators, Bag Filters
Continuous Fluid Bed Configurations	Static Fluid Bed Dryers, Vibratory Fluid Bed Dryers
Air Heating System Configurations	Direct Fired / Indirect Fired Air Heaters, Indirect Air Heaters, Electric Air Heaters



THANK YOU

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