

**SENEER**

# Fluid Bed Dryer



# Fluid Bed Dryer

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## Fluid Bed Dryer Feature

- ◆ Stainless steel 316L or 304 for contact product part
- ◆ Stainless steel 304 or carbon steel material dust collector
- ◆ Process times significantly reduced, rapid drying and uniform
- ◆ Siemens intelligent touch screen control system
- ◆ No dead zones in the product container
- ◆ Fluid bed dryer can work with high shear mixer
- ◆ Dust- free production fluid bed dryer can work with vacuum covers
- ◆ Steam heating or electric heating two kinds of heating modes



WIP systems for automated washing could be added to fluid bed dryers ◆

Fluidized bed driers can be provided with 2 bar, 10 bar or 12 bar explosion-proof ◆

Granules and powder dry easily, and there are no broken bits ◆

Intelligent touch screen operating system, automatic PLC control ◆

All the parameters can be memorable, transfer to SD card and USB ◆

Printer is available, printing process parameters ◆

Strongly aligned with cGMP guidelines ◆

## Fluid Bed Dryer Function

- ◆ Fluid bed dryers operate on the fluidization principle, which is the conversion of a substance from a rigid solid-like state to a dynamic fluid-like state
- ◆ The yield of materials balance is higher
- ◆ The upward forces on the particles increase as the velocity of the gas or air, then forcing them to equalize the gravitational forces below
- ◆ Lower energy consumption, compare to the other equipment' s
- ◆ Each particle is in close contact with the hot gas or air and is surrounded by it
- ◆ Effective and uniform drying operation



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**Fluid Bed Dryer** PRODUCT

## Fluid Bed Dryer Advantage

- ◆ The machine can handle a large volume of fluids
- ◆ Fast and homogeneous drying is ensured by Fluid Bed Dryers
- ◆ The Fluid Bed Dryer is ideal for non-sticky and heat-sensitive materials
- ◆ At low temperatures, fluid bed dryers are effective at drying materials
- ◆ Since the Fluid Bed Dryer is low-maintenance, it reduces downtime

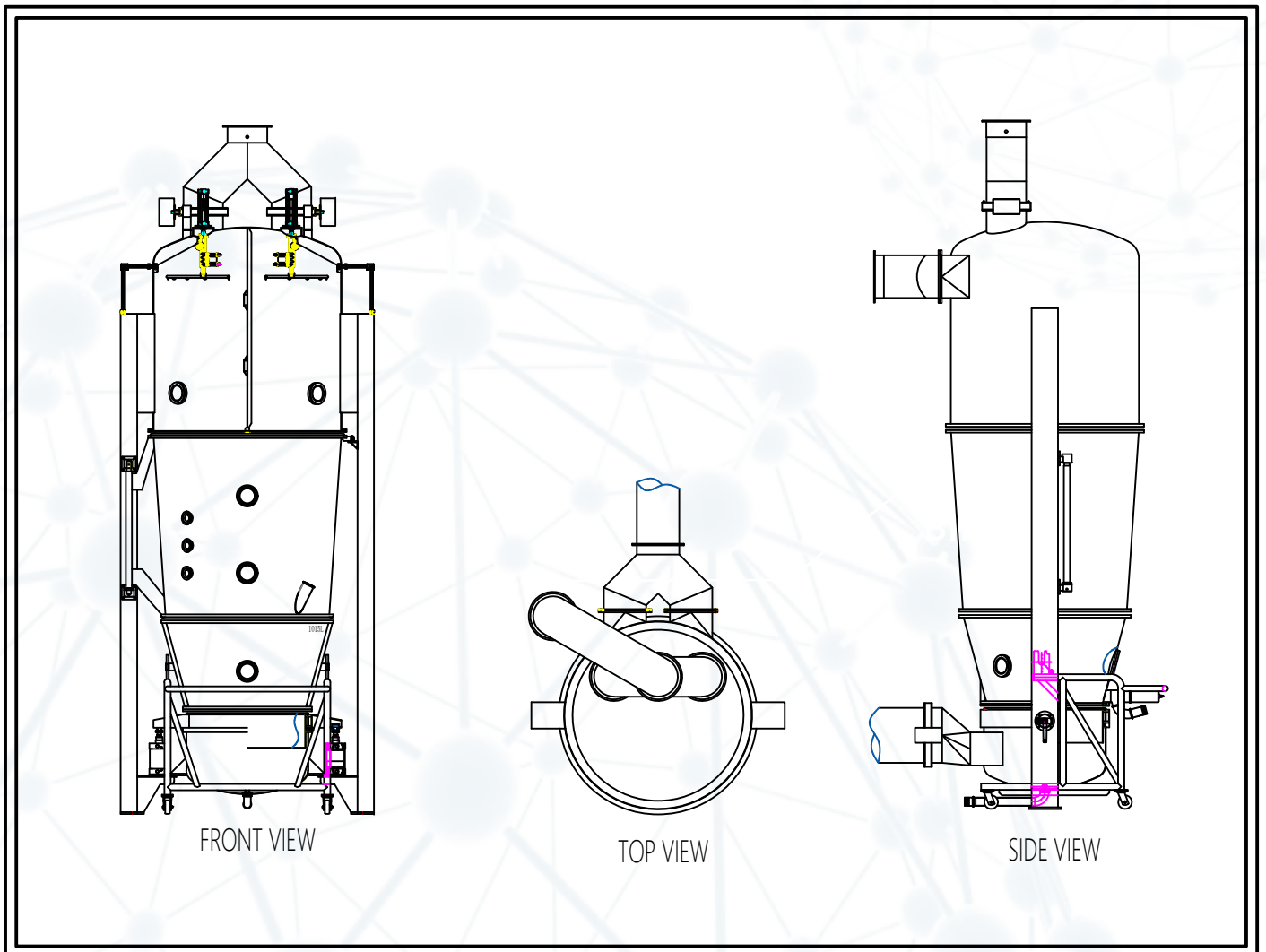
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## Fluid Bed Dryer PRODUCT



## Fluid Bed Dryer Application

- ◆ Pharmaceutical
- ◆ Health
- ◆ Food
- ◆ Chemical
- ◆ Dairy



## Fluid Bed Dryer Specification

### Technical parameters

Model		FBD-50	FBD-100	FBD-200	FBD-300	FBD-400	FBD-500	FBD-600	FBD-800	FBD-1000	FBD-1500
Product container(L)		50	100	200	300	400	500	600	800	1000	1500
Loading coefficient		0.3-0.9									
Production capacity(kg/batch)	Min	7.5	15	30	45	60	75	90	120	150	250
	Max	22.5	45	90	135	180	225	270	360	450	550
Material yield rate (%)		≥99									
Final water content (%)		Inlet air dehumidition device shall be additionally mounted									
Temperature adjusting range		100% Natural temperature-100									
Fan power		5.5	7.5	15	18.5/22	22/30	30/37	30/37	37/45	37/45	55
Noise(dB)		≤75 (Inside the clean room, with the fan installed separately)									
Steam (new air calculated according to C)	Pressure (Mpa)	0.4-0.6									
	Consumption(kg/h)	52	86	147	180	210	250	315	367	418	542
Compressed air	Pressure (Mpa)	0.4-0.6									
	Consumption(kg/h)	0.4	0.5	0.5	0.6	0.8	0.9	0.9	0.9	0.9	0.9
Cleaning medium		4	5	5	6	6	6	8	8	8	0.9