

SFBP – 3/5/10 Fluid Bed Processor



The Fluid Bed Processor GMP Model offers an effective and efficient method for drying, granulating & coating. It is invented keeping in mind the latest GMP norms with all contact parts AISI 316 L Quality. By using modular construction and simplified design, we provide flexible installation. The Machine is a vertical type, Electrical controls Auto Mode, Arrangement for spraying an active ingredient on to the carrier bed for top or Bottom spraying, Explosion proof and suitable for efficient accurate and uniform drying wet granulated pharmaceutical solid powder at a lower temperature.

Safety Features:

- Explosion vent is provided with a rupture disk.
- Safe Positive Earthing Device ensures the complete elimination of static charge.
- Product Bowl interlocking mechanism.
- Automatic Temperature & controls, Process cycle controls.
- Air pressure safety switch installed to ensure the pressure is within the limit.
- Overload relay Protection and Emergency stop button.

Salient Features:

- High Precision and effective drying technology.
- Single Pot Technology for drying, granulating, & Coating.
- Automatic pneumatically operated blowback filter cleaning system.
- All contact parts are S.S. 316 L & Non-contact parts SS 304 as per GMP Standard.
- Easy to install, operate, clean, convenient & user-friendly.
- Inbuilt design with Inlet hot air and exhaust air blower.

- Uniform Drying at low temperature.
- Lamp & Sight Glass for process visualization.
- Perforated air distribution plates 65% open along with Dutch weave mesh.
- Sampling Port facilitates withdrawal of any number of samples for In-process Quality Control tests, without interrupting the fluidization process.
- Inlet / Exhaust blower unit & Filtration unit can be placed in remote areas - optional
- Pneumatically operated inflatable food grade seals provided for filter bag and product container sealing with pressure switches & FRL to ensure fail-safe operation.
- Minimum handling more Hygienic.
- Easy in Validation.

Optional Available:

- Documentation (IQ, OQ, FAT)
- Additional Product container.
- Wurster Coating system (Bottom spray)
- Double scan AHU with Dehumidifier. (Outer Unit)
- Exhaust Filter with Housing
- Dry or Wet Scrubber at Exhaust.
- WIP system.
- FLP motor
- FLP motor for Solution pump
- Solid Flow monitor (Broken bag detector).
- Humidity Sensor
- Separate Power Panel Box for Non-FLP Area.
- Ducting

Technical Specifications:

Model	SFBP – 3	SFBP – 5	SFBP – 10
Product Container			
Container Volume	7 Liters – 3 kg	10 Liters – 5 kg	20 Liters – 10 kg
Container Trolley	-	-	-
Batch Capacity (0.5 bd)	2 kg	3.5 kg	7 kg
Air Flow			
Free Air Flow for inlet air (m ³ /hrs) ±10% approx.	300 m ³ /hour	340 m ³ /hour	516 m ³ /hour
Blower Motor Capacity			
Blower Motor - hp	5 hp	5 hp	7.5 hp
Electrical Heating			
Drying Temp in ° C	35° - Max 80° C	35° - Max 80° C	35° - Max 80° C
Heater	6 kW	9 kW	9 kW
Compressed Filtered Air			
Consumption	45 CMH	45 CMH	45 CMH
Maximum Pressure	6 bar	6 bar	6 bar
Spray Pump			
Motor	0.125 hp	0.125 hp	0.125 hp
Output – Max.	100 ml/min	100 ml/min	100 ml/min
Silicone Tubing	4 mm ID	4 mm ID	4 mm ID
Spray Gun			

Top spray	Orifice 0.8	Orifice 0.8	Orifice 0.8
Bottom spray	Orifice 0.5	Orifice 0.5	Orifice 0.5
Electrical			
Power supply - Voltage	415 or 220 V, 50 / 60Hz.	415 or 220 V, 50 / 60Hz.	415 or 220 V, 50 / 60Hz.
Total load	7.5 kVA	8.5 kVA	12 kVA
Dimensions & Weight			
Dimensions L x W x H mm	1605 x 995 x 1860	1650 x 1005 x 1920	1745 x 1120 x 1890
Net weight	325 kg	330 kg	495 kg
Gross Weight approx.	620 kg	630 kg	670 kg