

Fluid Bed Processor

Fluid Bed Processor is the new coating and granulation range that builds on the proven Umang technology and its benefits. Similar design of distribution plate, nozzles and continuous working filter bags ensures that process and validation wise there is no difference to the granulation / coating process. This unique design of plates, nozzles and filters makes the not only a perfect granulation system but also an ideal machine for fluid bed coating applications.

The outstanding feature of the fluid bed processor range is the integrated and CIP optimized design. Connections, cabling and supplies are completely integrated, covered and sealed so the outside of the machine is smooth and very easy to clean. The innovative discharge valve design and optimized seals inside the bowl allow for CIP. As a result of this the our Fluid bed processor is highly flexible, quick product changeover increases productivity and cost effectiveness.

The fluid bed processor ranges from 1 to 1500 liters featuring through the wall design and movable head, allowing operation with platform and dust-free discharging via a linked mill directly into an IBC. The Fluid bed processor can be stand-alone or linked to a high shear mixer for granulation or a extrusion and spheronization system to form an integrated system.



Standard Features for Fluid Bed Processor :

- Distribution plate available in plain uniform perforations.
- Swirl design of plates possible as a option.
- Perfect cGMP-design: smooth covering, no external tubing and piping allowing easy cleaning
- Completely integrated full opening side discharge: perfect discharge of difficult products
- Through the wall installation: minimum space required in GMP area
- User-friendly operator-machine interaction via graphical operator panel 12" Industrial PC software with PROCESS + range of software which helps interlinking all plant equipments to a single system.
- Flexibility (processes and products) for wet granulation.
- Different up plate and down plate configurations for fluid bed coating applications.

Standard Features for Fluid Bed Processor :

- Explosion proof design
- Automatic cleaning (WIP/CIP) of entire system
- 21 CFR part 11 certified controls.
- ADVANCE PROCESS + for easy and automated granulation control
- Jacketed / insulated liquid tank
- Total containment through up- and downstream split valves and flexible isolation systems.
- Integration with mill and/or fluid bed possible: perfect closed link for dust-free operation
- Video monitoring of the process
- Liquid addition system (peristaltic pump / pressure vessel)
- Product feeding both by gravity or vacuum loading system directly from the containers
- Validation documentation and assistance based on GAMP

Technical Specifications for Fluid Bed Processor :

MODEL	Fluid Bed Processor - 50	Fluid Bed Processor - 125	Fluid Bed Processor - 250	Fluid Bed Processor - 500	Fluid Bed Processor - 750	Fluid Bed Processor - 1000	Fluid Bed Processor - 1500
Batch Capacity (Ltrs.)	56	125	265	525	800	1100	1640

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