FLUIDISED BED DRYER

WORKING:

Hot air is introduced from the bottom of the container which has diffuser plates and a sieve . The bed of wet material gets fluidized. Fluidization produces turbulence in bed of solid particles and since each particle is surrounded by hot air, heat transfer is extremely high and uniform. Moist air passes through a filter bag and a exhaust.

ADVANTAGES:

In a Fluid Bed Dryer, the temperature is distributed uniformly throughout the product and the heat rate is very high. High production rates are achieved because of reduced drying time. As the product is in close contact with the drying air at a low temperature and for a short duration, the physical and chemical properties of the product are not affected generally and hence the dryer can be effectively used in the case of heat sensitive products. As the products is continuously moving during the process, there is minimum lump formation or case hardening. Fluidised bed dryer are most suitable for drying granular, crystalline, coarse, or similar material and it is not suitable for liquids or paste.

APPLICATION:

- Pharmaceuticals
- Fine chemicals
- Dyes
- Food & Allied Industry

Model No.	Capacity (Kgs)	Volume (Ltrs)	Blower Motor (KW)	Heating Load (LW)	Steam Consumption (Kg/hr)
FBD-30	30-40	100	3.7	18	35
FBD-60	60-70	220	7.5	36	65
FBD-120	120-140	430	11	54	100
FBD-200	200-220	590	15	-	160
FBD-250	250-280	730	185	-	200
FBD-300	300-330	900	18.05	-	250
FBD-400	400-450	1330	22.5	-	320
FBD-500	500-550	1660	30	-	380

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