

CHANGZHOU XINGGAN DRYING EQUIPMENT CO.,LTD

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FL Series Fluid Bed Drying Granulator



Working Principle

The working principle of FL Fluidizing Drying Granulating is that material powder particles, under the annular fluidized state in the container (fluidized bed), are preheated and mingled by heated air which has been purified in advance. The adhesive solution will be atomized which combines some particles, resulting in adhesive granules. Moisture in granules will be evaporated because the heated air ceaselessly dries the particles and then the adhesive will be solidified. This is a repeated process in which the ideal and homogeneous micro porous spherical particles will be produced.

Features

- 1、 Improve fluidity and decrease the flying dust through powder granulation.
- 2、 Improve the solubility through powder granulation.
- 3、 Blending-granulating-drying-three steps are completed in one machine (one-step granulation).
- 4、 Anti-static filtering material is used to secure its operation.
- 5、 Multi fluid airbrush embedded in binder atomizer makes equal particles which greatly improve the qualified rate of finished products.
- 6、 No dead band in equipment makes it easier to load and unload material and to wash.

Application

- 1、 Drug granulation and tablet coating:
- 2、 Granulation: press tablet and granules, instant granules and granules within capsules.
- 3、 Coating: granules, pill protection layer, prepared colors, slow releasing, film and other enteric coating.
- 4、 Particles in food industry and coating:
- 5、 Granulated sugar, coffee, cocoa particles, cream, juice powder, processed amino acid, condiment and puffed food.
- 6、 Particles for pesticide, paint pigments and dye granulating.
- 7、 Powdery, granular and blocky material drying.

TECHNICAL PARAMETERS

Specification	unit	3	5	15	30	45	60	90	120	150	200	300	500	
Capacity	L	12	22	45	100	155	220	300	420	530	660	1000	1500	
Handing Capacity	kg/per time	1.5/4.5	4/6	10/20	15/45	25/65	40/80	60/120	80/160	90/200	100/300	150/450	300/300	
Power of Fan	kw	2.2	3	4	5.5	7.5	11	15	18.5	18.5	22	30	37	
Consumption of Steam 0.4MPa	kg/h	12	23	42	70	99	141	169	211	251	282	366	451	
Consumption of Compressed Air	m ³ /min	0.3	1.3	0.3	0.4	0.4	0.6	0.6	0.9	0.9	0.9	1.3	1.5	
Noise	dB(A)	(Fan is installed separately)≤75												
Overall Dimension	Length	mm	1000	1200	1250	1600	1650	1850	1850	2200	2270	2340	2800	3000
	Width		500	600	750	900	1100	1250	1250	1650	1720	1900	1900	2550
	Height		1800	2100	2100	2300	2400	3000	3000	3100	3100	3500	3800	4200

More Photos

