

## *FL Fluidized Granulator*



The powder granule in vessel (fluid bed) appears in the state of fluidization. It is preheated and mixed with clean and heated air. At the same time the solution of adhesive is sprayed into the container. It makes the particles become granulating that contains adhesive. Being of unceasing dry through hot air, the moisture in the granulating is evaporated. The process is carried out continuously. Finally it forms ideal, uniform and porous granules.

### **Applications**

Pharmaceutical industry: tablet capsule, low sugar or no sugar granule of Chinese traditional medicine. Foodstuff: cocoa, coffee, milk powder, juice of granulate, flavoring and so on. Other industries: pesticide, feed, chemical fertilizer, pigment, dyestuff and so on. Drying: powder or granule state of wet material. Coating: protection layer, color, controlled release, film, or bowels solved coating of granules and pills.

### **Features**

The flow ability is improved and the dust is reduced, because of granulator. Because of powder granulating, its solubility is improved. The processes of mixing, granulating and drying are completed in one step inside the machine. The operation is safe because the anti-static filter cloth adopted. It's safe for operator if explosion take place, because explosion device is adopted. No dead angle. Therefore the loading and unloading are quick, light and clean, meet the requirements of GMP.

## Parameter

item		spec		3	5	30	60	120	200	300	500	1000
		dim.	mm	300	400	700	1000	1200	1400	1600	1800	2200
container of raw material	dim.	mm	300	400	700	1000	1200	1400	1600	1800	2200	
	volume	L	12	22	100	220	420	670	1000	1500	2500	
production capacity	Min.	kg/batch	1.5	4	15	30	80	100	150	250	500	
	Max.	kg/batch	4	6	36	72	140	240	360	600	1100	
consume of steam		kg/batch	12	23	70	140	211	282	366	465	800	
amount of compressed air		m <sup>3</sup> /min	0.3	0.3	0.3	0.6	0.6	0.9	0.9	0.9	1.5	
power of fan		kW	2.2	4	5.5	11	18.5	22	30	45	75	
temperature		°C	Adjustable from ambient temperature to 120									
collection rate		%	> 99									
time of operation		min	15~30( depends on material)									
content of final product		%	~ 0.2( depends on material)									
noise		dB	≤75									
height of main machine		mm	2100	2300	2500	3000	3300	3800	4000	4800	6200	