

## *PGL-B Series Spray Drying Granulator*



### **Applications**

- Pharmaceutical industry: tablet, medicinal granules, capsule granule, granule of Chinese medicine with no or low sugar.
- Foodstuff: cocoa, coffee, milk powder, juice of granule, flavoring and so on.
- Other industries: pesticides, feed, chemical fertilizer, pigment, dyestuff and so on.

### **Features**

- Integrate spraying, drying fluid granulating in one body to realize granulating from liquid in one step.
- Using the process of spraying, it is particularly suitable for micro auxiliary raw materials and heat sensitive raw materials. Its efficiency is 1-2 times than FL fluidized granulator.
- The final moisture of some products can reach 0.1%. It is equipped with powder returning device. The rate of granule forming is more than 85% with 0.2-2mm of diameter.
- The improved inner roller multi-flow atomizer can treat the liquid extract with 1.3g/cm<sup>3</sup> of gravity.
- At present, this series of machine we can make the type of PGL-150B which can process 500kg/batch.

## Parameter

spec			PGL-3B	PGL-5B	PGL-10B	PGL-20B	PGL-30B	PGL-80B	PGL-120B
item									
liquid extract	Min.	kg/h	2	4	5	10	20	40	55
	Max.	kg/h	4	6	15	30	40	80	120
fluidization capacity	Min.	kg/batch	2	6	10	30	60	100	150
	Max.	kg/batch	6	15	30	80	160	250	450
specific gravity of the liquid		g/cm <sup>3</sup>	≤1.30						
volume of material vessel		L	26	50	220	420	620	980	1600
diameter of vessel		mm	400	550	770	1000	1200	1400	1600
power of suction fan		KW	4	5.5	7.5	15	22	30	45
power of auxiliary fan		KW	0.35	0.75	0.75	1.2	2.2	2.2	4
steam	consumption	kg/h	40	70	99	210	300	366	465
	pressure	MPa	0.1~0.4						
power of electric heater		KW	9	15	21	25.5	51.5	60	75
compressed air	consumption	m <sup>3</sup> /min	0.9	0.9	0.9	0.9	1.1	1.3	1.8
	pressure	MPa	0.1~0.4						
operating temperature		°C	automatically regulated from indoor temperature to 130°C						
water content of product		%	≤ 0.5%(depends on the material)						
rate of product collection		%	≥ 99%						
noise level of machine		dB	≤ 75						
dimensions of main machine	Ø	mm	400	550	770	1000	1200	1400	1600
	H1	mm	940	1050	1070	1180	1620	1620	1690
	H2	mm	2100	2400	2680	3150	3630	4120	4740
	H3	mm	2450	2750	3020	3700	4100	4770	5150
	B	mm	740	890	1110	1420	1600	1820	2100