

FL Series Fluid Bed Spray Drying Granulator



FL Series Fluid Bed Spray Drying Granulator is intended for manufacturing granules for drinking preparation, tablets and capsules; granules for slow releasing; granules for instant dissolved food and beverages; granules for chemicals. Fluid bed drying granulator utilized hot air with high speed to be fluidized and granulates with the spraying binding liquid drop. The size of granules could be adjusted by the temperature, spraying pressure and the quantity of binding liquid. Combine spray, drying, mixing and granulating into one. Make granules with few assistant materials, small dosage amount, low sugar or sugar free. Granule dissolved instantly, drinking preparation easily dissolves out and tablets distinguished easily. Machine works at negative pressure with smooth and cleaning inside surface without dead corner. It is convenient for cleaning to meet GMP requirements.

Technical Parameters:

Model	FL3B	FL5B	FL10B	FL20B	FL40B	FL80B	FL120B
Production Capacity	(2-5) Kg/batch	(3-15) Kg/batch	(10-30) Kg/batch	(30-80) Kg/batch	(50-160) Kg/batch	(100-250) Kg/batch	(150-450) Kg/batch
Capacity For Extracts	(1-4) Kg/batch	(2-8) Kg/batch	(4-20) Kg/batch	(8-40) Kg/batch	(20-60) Kg/batch	(40-120) Kg/batch	(100-140) Kg/batch
Liquid Gravity	≤ 1.3 Kg/L						
Volume Of Fluid Bed	26 Kg	50 Kg	120 Kg	300 Kg	500 Kg	750 Kg	1100 Kg
Power Of Main Fan	3/4 Kw	4/5.5 Kw	5.5/7.5 Kw	11/15 Kw	18.5/22 Kw	30/37 Kw	45/55 Kw
Power Of Assistant Fan	0.55 Kw	0.55 Kw	1.10 Kw	1.10 Kw	1.5 Kw	1.5 Kw	2.2 Kw
Steam Consumption	40 Kg/h	70 Kg/h	99 Kg/h	210 Kg/h	300 Kg/h	420 Kg/h	530 Kg/h
Steam Pressure	(0.4-0.6) Mpa						
Power Of Electric Heating	18 Kw	22 Kw	30 Kw	50 Kw	60 Kw	90 Kw	120 Kw
Compressed Air Consumption	0.5 M ³ /min	0.8 M ³ /min	0.8 M ³ /min	0.9 M ³ /min	1.1 M ³ /min	1.3 M ³ /min	1.8 M ³ /min
Compressed Air Pressure	(0.4-0.6) Mpa						
Working Temperature	Adjustable From Indoor Temperature To 120°C						
Moisture	≥ 2%						
Collection Of Materials	≥ 95%						
Noise	≤ 70 db (Suction Fan is Separately treated)						
Packing Size	720×400 × 2190	980×550 × 2650	1130×700 × 3050	1430×1000 ×3530	1630×1200 ×4020	1830×1400 ×4500	2030×1800 ×5430
Packing Weight	650 Kg	900 Kg	1200 Kg	1350 Kg	1800 Kg	2300 Kg	2500 Kg