

DPLS-series Laboratory Multifunctional Fluid Bed Dryer/Granulator/Coating



The machine is a multifunctional fluid bed granulator integrating various functions such as top spray, bottom spray and side spray. It has various functions such as mixing, drying, granulating, coating and pelletizing. It is widely used in such industries as pharmaceutical, food, chemical industry, etc.

Work principle

The machine is composed of air inlet system, fluid bed system, top spray system, bottom spray system, side spray system and exhaust and dust filter system. The top spray provides the granulating function, the bottom spray provides the pellet coating function and the side spray provides the pelletizing function. The above functions are realized in one multifunctional fluid bed granulator. Users can select the optional functions according to actual process requirements.

Features

1. The machine adopts modular design. Three functions or any one or two of the functions can be configured according to customer requirements.
2. The machine is provided with complete function systems including top spray, bottom spray and side spray to conveniently realize such the functions of drying, granulating, coating and pelletizing.
3. The machine adopts PLC automatic control. All operations are completed automatically according to the process parameters set by users. All process parameters can be printed and the original records are true and reliable. It fully meets GMP requirements for pharmaceutical production.

Technical Parameters

Item	Model	DPL-5	DPL-30	DPL-60
Vessel volume(L)		38L(Top spray); 22L (Bottom spray)	100L(Top spray);80L(Bottom spray)	220L(Top spray); 200L (Bottom spray)
Production capacity(kg/batch)		3-5(Top spray); 1-3(Bottom spray)	10-30(Top spray) : 10-20(Bottom spray)	30-60(Top spray); 30-40(Bottom spray)
Fan power(KW)		7.5	11	18.5
Electric heating power(KW)		12	-	-
Steam pressure<MPa>		0.4-0.6	0.4-0.6	0.4-0.6
Steam consumption(kg/h)		-	55	140
Compressed air pressure(MPa)		0.4-0.6	0.4-0.6	0.4-0.6
Compressed air consumption(m ³ /min)		0.3	0.4	0.9
Outline dimensions	H	2921	3136	3953
	φD	606	606	1106
	W	784	984	1340