

SZG Series Conical Vacuum Dryer



Let heat source (for example, low pressure steam or thermal oil) pass through the sealed jacket. The heat will be transmitted to raw material to be dried through inner shell. Under driving of power, the tank is rotated slowly and the raw material inside it is mixed continuously. The purpose of reinforced drying can be realized. The raw material is under vacuum. The drop of steam pressure makes the moisture (solvent) at the surface of raw material reach the state of saturation and evaporate. The solvent will be discharged through vacuum pump and recovered in time. The inner moisture (solvent) of raw material will infiltrate, evaporate and discharge continuously. The three processes are carried out unceasingly and the purpose of drying can be realized within a short time.

Applications

It is suitable for the raw materials that need to concentrate, mixed and dried at low temperature (for example, biochemistry products) in chemical, pharmaceutical and foodstuff industries. Particularly it is suitable for the raw materials that are easy to be oxidized, volatilized and have heat sensitivity and is toxic and not permitted to destroy its crystal in drying process.

Features

When oil is used to heat, use automatic constant temperature to control. It can be used for drying biology products and mine. Its temperature of operation can be adjusted from 20 -160°C. Compared to ordinal dryer, its heat efficiency will be 2 times higher. The heat is indirect. So the raw material can not be polluted. It is in conformity with the requirement of GMP. It is easy in washing and maintenance.

Parameter

spec		item										
		100	200	350	500	750	1000	1500	2000	3000	4000	5000
Total volume	L	100	200	350	500	750	1000	1500	2000	3000	4000	5000
Working volume	L	50	100	175	250	375	500	750	1000	1500	2000	2500
Heating area	m ²	1.16	1.5	2	2.63	3.5	4.61	5.58	7.5	10.2	12.1	14.1
Speed	r/min	6							5	4	4	4
Power	kW	0.75	1.1	1.5	1.5	2	3	3	4	5.5	7.5	7.5
Rotating height	mm	1810	1910	2090	2195	2500	2665	2915	3055	3530	3800	4180
Total weight	kg	825	1050	1350	1650	1800	2070	2250	3000	4500	5350	6000
Design pressure inside the tank	MPa	-0.09~0.096										
Design pressure of jacket	MPa	0.3										