

## SZG Series Double Conical Revolving Vacuum Dryer SZG 系列双锥回转式真空干燥机



### 概述

SZG双锥回转真空干燥机是我厂在结合国内同类产品技术所开发新一代干燥装置, SZG双锥回转真空干燥机具备皮带、链条两级弹性联结方式, 因而设备运行平稳。特别设计的工装, 充分体现了两支轴的良好同心, 热媒及真空系统均采用可靠的美国技术的旋转接头。在此基础上, 我们开发了SZG-A, 它既可无级调速, 又能进行恒温控制。

作为专业干燥设备制造厂, 我们以每年百余台服务于用户, 本厂产品从高温导热油为热媒介质、中温蒸汽及低温热水一应俱全。干燥粘性物料时, 本厂将在罐内为您特别设计“抄板”机构或设置滚珠。

### Description

SZG Series Conical Vacuum Dryer is a new generation drying device developed by our factory on the basis of combining the technology of similar equipment. It has two connecting ways, i.e. belt or chain. Therefore it is stable in operation. The special design guarantees two shafts realize good concentricity. Heat medium and vacuum system all adapt reliable rotating connector with the technology from USA. On this basis, we also developed SZG-A. It can carry out stepless speed change and constant temperature control.

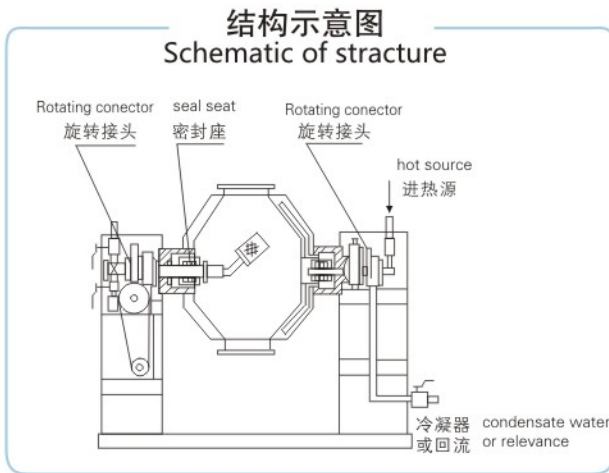
As a professional factory in drying industry, we supply hundred sets to the customers every year. As for heat medium, it may be thermal oil or steam or hot water. For drying the adhesive raw material, we have designed specially a stirring plate buffer for you.

### 原理

- 在密闭的夹层中通入热能源(如热水、低压、蒸汽或导热油), 热量经内壳传给被干燥物料。
- 在动力驱动下, 罐体作缓慢旋转, 罐内物料不断地混合, 从而达到强化干燥的目的。
- 物料处于真空状态, 蒸汽压下降使物料表面的水份(溶剂)达到饱和状态而蒸发, 并由真空泵及时排出回收。物料内部的水份(溶剂)不断的向表面渗透、蒸发、排出, 三个过程不断进行, 物料在很短时间内达到干燥目的。

### Principle

- Heat source (for example, low pressure steam or thermal conduct 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 exists is under vacuum. The drop of steam pressure makes the moisture (solvent) at the surface of raw material become saturation and will evaporate. The solvent will be discharged through vacuum pump an 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.



### 特点

- 油加热时, 采用自动恒温控制, 可以干燥生化制品和矿物原料, 温度可在20~160℃之间。
- 热效率高, 比一般烘箱提高2倍以上。
- 间接加热, 物料不会被污染, 符合"GMP"要求。设备维修操作简便, 易清洗。

### Features

- When oil is used to heat, use automatic constant temperature control. It can be used for drying biology products and mine. Its temperature of Operation can be adjusted form 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.

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### 应用

适用化工、制药、食品等行业的粉状、粒状及纤维状物料的浓缩、混合、干燥及需低温干燥的物料(如生化制品等), 更适用于易氧化、易挥发、热敏性、强烈刺激、有毒性物料和不允许破坏结晶体的物料的干燥。

### Application

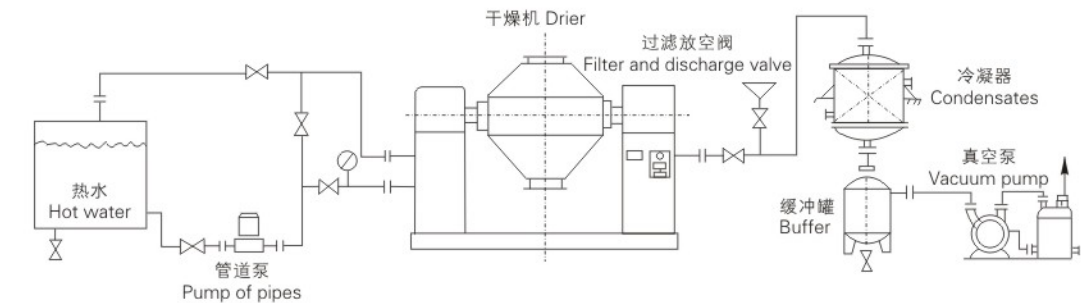
It is suitable for the raw materials that need to concentrate, mixed and dried at low temperature (for example, biochemistry) products in chemical, pharmaceutical and foodstuff industries. Particularly it is suitable for the raw materials that are easy to be oxidized, volatilized and have heat sensitivity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



### 安装示意图

#### Schematic of installation

推荐的工艺安置示范: 溶剂回收工艺安置  
example of recommended installation: installation of solvent recover.



### 技术参数 Technical parameters

项目 Item	机型 Type												
名称 Name	单位 Unit	100	200	350	500	750	1000	1500	2000	3000	4500	5000	
总容积 Total volume	L	100	200	350	500	750	1000	1500	2000	3000	4500	5000	
工作容积 Working volume	L	≥50	≥100	≥175	≥250	≥375	≥500	≥750	≥1000	≥1500	≥2250	≥2500	
加热面积 Heating area	m <sup>2</sup>	1.16	1.5	2	2.63	3.5	4.61	5.58	7.5	9.6	13.8	15.2	
转速 Speed	rpm	6									4	4	4
功率 Power	kw	0.75	1.1	1.5	2.2	2.2	3	4	5.5	7.5	15	18.5	
回转高度 Height of rotating frame	mm	1810	1910	2090	2195	2500	2665	2915	3055	3330	4210	4500	
整机重量 Total weight	Kg	550	700	900	1100	1200	1300	1500	2000	3000	4000	4200	
罐内设计压力 Design pressure inside tank	Mpa	-0.09~0.096											
夹层设计压力 Design pressure inside jacket	Mpa	≤0.3											