

CHANGZHOU XINGGAN DRYING EQUIPMENT CO.,LTD

Tel: +86-519-88900188 Mobile: +8618661216636

Wechat: zlx635771893 E-mail: franklxz@xggz.com

Web: <https://www.stardrying.com/>

SZG Series Double-cone Rotary Vacuum Dryer



Description

SZG double cone vacuum dryer adopts belt - chain two elastic connection mode, so the equipment runs smoothly. The specially designed process fully embodies the good concentricity of the two shafts. The heat medium and vacuum system adopt reliable mechanical seal or rotary joint of American technology. On this basis, we developed SZG-A which can not only stepless speed regulation, but also can carry out constant temperature control. This product is available from high temperature heat conduction oil to heat medium, medium temperature steam and low temperature hot water. When drying sticky materials, the "plate copying" mechanism or ball bearing will be specially designed in the tank.

Application

Concentration, mixing and drying of powder, granular materials and fibers of chemical, pharmaceutical and food industries: Materials requiring low-temperature drying (such as biological products). Being suitable for drying materials which are easily oxidized, volatile, heat-sensitive, strong irritant, toxic or not permitted to destroy its crystals.

Features

- 1、 Automatic constant temperature control is used when the oil is heating. Biochemical products and

raw materials can be dried, in a temperature between 20-160°C.

- 2、 High thermal efficiency, more than 2 times improvement than average oven.
- 3、 Indirect heating so that the material will not be contaminated. In line with "GMP" requirements.
- 4、 Simple equipment maintenance. Easy to clean.
- 5、 Using recommended resettlement process demonstration solvent to recover resettlement.

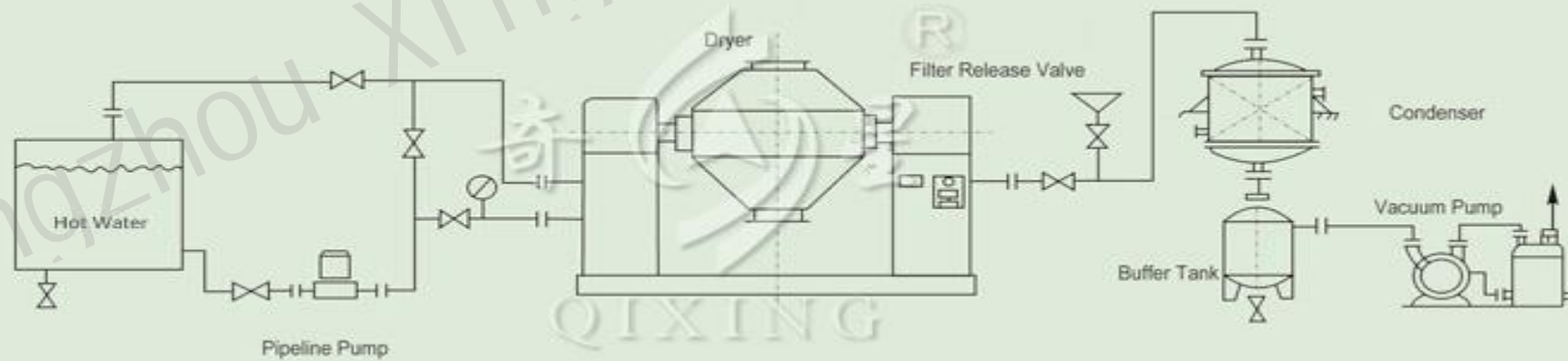
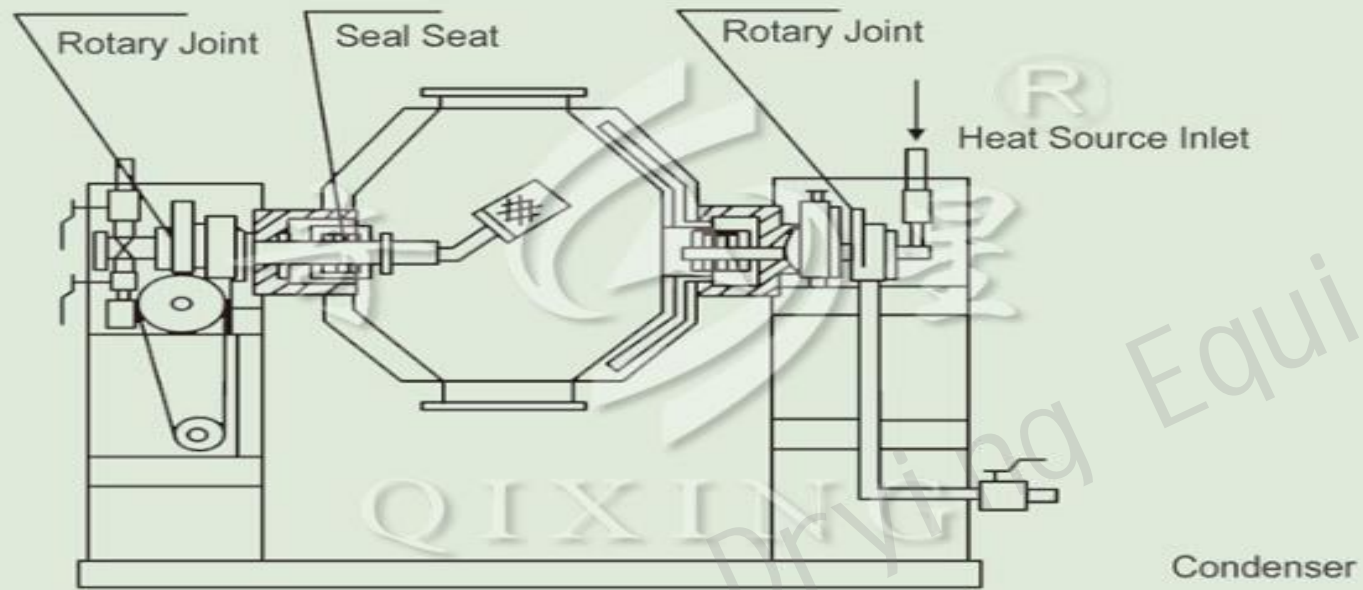
Working Principle

- 1、 When the heat source (hot water, low temperature steam, or thermal oil) pass through the sealed jacket, the heat will be transmitted to raw material through the inner shell.
- 2、 Under action of driving power, the tank is rotated slowly and the raw material is mixed continuously. The purpose of reinforced drying can be realized.
- 3、 The raw material is under vacuum condition. When steam pressure is dropping, it makes the moisture (solvent) at the surface of raw material become saturation and then evaporates. The solvent will be discharged through vacuum pump.
- 4、 The moisture (solvent) of raw material will infiltrate. Evaporate and discharge continuously. The production processes are carried out continuously and the drying can be done in a short time.

TECHNICAL PARAMETERS

Item\Model	SZG-100	SZG-350	SZG-500	SZG-750	SZG-1000	SZG-1500	SZG-2000	SZG-3500	SZG-4500	SZG-5000
Inside Volume of Tank(L)	100	350	500	750	1000	1500	2000	3500	4500	5000
Practical Loading Volume (L)	≤50	≤175	≤250	≤375	≤500	≤750	≤1000	≤1750	≤2250	≤2500
Heatint Area(m ²)	1.16	2	2.63	3.5	4.61	5.58	7.5	11.2	13.1	14.1
Rotary Speed(r.p.m.)	4-6									
Power of Motor(kw)	0.75	1.1	1.5	2	3	3	4	5.5	7.5	11
Occupied AreaLxW(mm)	2160x800	2260x800	2350x800	2560x1000	2860x1300	3060x1300	3260x1400	3760x1800	3960x2000	4400x2500
Rotating Height (mm)	1750	2100	2250	2490	2800	2940	2990	3490	4100	4200
Design Pressure for Inside of Tank (MPa)	-0.1-0.15									
Design pressure of jacket (MPa)	≤0.3									
Working Temperature(°C)	T _{tank Inside} ≤85 Jacket≤140									
Model of Vacuum Pump (with condenser)	2X-15A	2X-15A	2X-30A	2X-30A	2X-70A	JZJX300-8	JZJX300-4	JZJX600-8	JZJX600-4	JZJX300-4
Model Power	2KW	2KW	3KW	3KW	505KW	7KW	9.5KW	11KW	20.5KW	22KW
Power of Vacuum	SK-0.4	SK-0.4	SK-0.8	SK-1.5	SK-1.5	SK-3	SK-6	SK-6	SK-9	SK-12
Model Power	1.5KW	2.2KW	2.2KW	4KW	4KW	5.5KW	11KW	11KW	15KW	18.5KW
Weight (kg)	800	1100	1200	1500	2800	3300	3600	6400	7500	8600

More Photos





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Equi pme