



Overall powder solution

PRODUCT CATALOGUE

Drying Equipment



Sales Network



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■ BSO Hot Air Dryer



Product Introduction:

BSO drying machine applies a low-noise and high temperature-proof axial flow blower and an automatic temperature control system which is fully sealed, making that the heat efficiency of the drying oven increases from 3-7% of traditional oven to 35-45% of the present one. Our products can be customized according to the needs.

Working Method:

The basic principle of the BSO series hot air circulation drying oven is to use steam or electricity as heat energy, and heat is generated by a steam radiator or electric heating element. The fan performs convective heat transfer, heat is transferred to the material, and fresh air is continuously added to the oven to discharge humidity Gas is blown from the oven. When drying, maintain proper relative temperature and humidity. The most important feature is that most of the hot air circulates in the drying room, thereby enhancing heat and mass transfer and saving energy.

Technical Data:

Model	BSO-O	BSO-I	BSO-II	BSO-III	BSO-IV
Dry amount each (kg/batch)	~60	~120	~240	~360	~ 500
Temperature (°C)	20 ~160 (adjustable)				
Axial Fan (KW)	0.45 * 1 piece		0.45* 2 pieces	0.45* 3 pieces	0.45 * 4 pieces
Heat dispelling area (m ³)	15	24	48	80	100
Steam consumption (kg/hr)	15	20	40	60	80
Electric-heating power (KW)	9	15	30	45	60
Down temp (°C)	±2				
Tray cart quantity (set)	1	2	4	6	8
Tray (piece)	24	48	96	144	192
Tray size	640*460*45mm*δ0.5mm (punching:3mm)				
Overall size (L*W*H)(mm)	1400*1200* 2000	2300*1200* 2000	2300*2200*2 000	3200*2200*20 00	4280*2200*20 00
Weight (kg)	820	1580	1800	2100	2800
Material	Stainless steel 304				

■ BSVD Square Vacuum Dryer



Product Introduction:

For BSVD commercial dehydrator, material will be dried under vacuum condition. Under the vacuum condition, the boiling point of material solution will reduce. It will increase impetus for heat and mass exchange. Therefore for certain heat exchange amount, it can save heat exchange area of evaporator.

Working Method:

Pure water has the maximum vaporization rate when it is boiling. Under normal pressure, pure water starts to boil at about 100°C. Under vacuum conditions, because the partial pressure of water vapor in the system is much lower than the partial pressure of water vapor on the surface of the material, the boiling point of water is lower than 100°C. For example: when the surface drops to -0.07Mpa, the water starts to boil at 70°C. General rule: the higher the vacuum, the lower the boiling point of water. In the vacuum dryer, the vaporized water can be quickly removed with the vacuum generation, so even at a lower operating temperature, the dryer still has a greater drying capacity.

Main Features:

1. The heating sources are optional, you can use steam or electricity.
2. It is beneficial to maintain the initial form of the material, intermittent operation, and can adjust the process conditions at any time.
3. With an arched structure on the top, can effectively overcome the problem of condensed water dripping back and further improve the drying efficiency.
4. The exclusive design adopts a four-point vacuum structure to ensure the uniformity of drying of materials.
5. Especially suitable for materials that are afraid of oxidation and easy to decompose during the drying process.

**Technical Data:**

Model	BSVD-10	BSVD-15	BSVD-20
Inner size of drying chamber(mm)	1500*1040*1200	1500*1400*1200	1500*1800*1200
Overall size(mm)	1676*1700*1564	1676*2060*1564	1676*2500*1564
Layers of backing support	5	8	12
Interval(mm)	120	120	120
Size of baking tray(mm)	460*640*45	460*640*45	460*640*45
Quantity of baking tray	20	32	48
Working pressure inside the pipe of baking support(MPa)	≤0.784		
No-load vacuum in the box (Mpa) (when working)	35-150		
No-load vacuum in the box (Mpa) (when not working)	-0.1		
At -0.1Mpa, when the heating temperature is 110℃, the vaporization rate of water	7.2		
Vacuum pump power when using condenser(kw)	5.5	5.5	7.5
Vacuum pump power when condenser is not used (kw)	4	5.5	5.5
Heating source	Steam or electricity		
Weight of drying chamber(kg)	1400	2100	3200



■ BSW Double Cone Rotary Vacuum Dryer



Product Introduction:

BSWD is suitable for vacuum drying and mixing of powder and granular materials in the pharmaceutical, food, chemical and other industries.

Working Method:

BSWD is a double-cone rotary tank. When the tank is in a vacuum state, heat conduction oil or hot water is passed into the jacket for heating, and the heat is in contact with the wet material through the inside of the tank. The water vapor evaporated after the wet material absorbs heat. It is evacuated by a vacuum pump through a vacuum exhaust pipe. Since the tank body is in a vacuum state, and the tank body is constantly rotating up and down, turning inside and out, the drying speed of the material is accelerated, the drying efficiency is improved, and the purpose of uniform drying is achieved.

Main Features:

1. A new type of dryer integrating mixing and drying. The condenser and vacuum pump are matched with the dryer to form a vacuum drying device.
2. Advanced design, simple internal structure, easy cleaning, all materials can be discharged, simple operation.
3. Because the material will rotate when the container itself rotates, but there is no accumulation of material on the wall, the heat transfer coefficient is high, and the drying rate is high, which not only saves energy, but also the material is dried uniformly and fully and has good quality.

Technical Data:

Model	BSWD-100	BSWD-350	BSWD-500	BSWD-750	BSWD-1000	BSWD-1500	BSWD-2000	BSWD-3500	BSWD-4500	BSWD-5000
Tank volume (L)	100	350	500	750	1000	1500	2000	3500	4500	5000
Max loading volume (L)	40	140	200	300	400	600	800	1400	1800	2000
Max loading (kg)	20	70	100	150	200	300	400	700	900	1000
Rotate speed (rpm)	3-13					6	5	4	4	4
Heating area (m ²)	1.1	2.3	2.8	3.9	5.1	6.5	8.2	12.2	16.5	18.2
Motor power (kw)	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15
Floor space (L*W)	2160*800	2160*800	2350*800	560*1000	2860*1300	3060*1300	3260*1400	3760*1800	3960*2000	4400*2500
Height of frame (mm)	1750	2100	2250	2490	2800	2940	2990	3490	4100	4200
Designed pressure in container(Mpa)	-0.25									
Jacket design pressure (Mpa)	≤0.3									
Weight (kg)	800	1100	1200	1500	2800	3300	3600	6400	7500	8600

■ BSCZ Roasting Machine



Product Introduction:

BSCZ roasting machine is used to roast all kinds of dry grains, nuts, spice, herbs and other materials automatically. It adopts unique horizontal roller structure, uniform heating, good sealing to effectively roast food.

Working Method:

Electromagnetic heating is also called electromagnetic induction heating. The principle is that an alternating magnetic field is generated by the components of the electronic circuit board. When a ferrous container is placed on it, the alternating magnetic field lines are cut on the surface of the container to generate an alternating current at the metal part of the bottom of the container (That is, eddy current), the eddy current causes the carriers at the bottom of the container to move at high speed and irregularly, and the carriers and atoms collide and rub against each other to generate thermal energy. So as to heat the materials. Because the iron container is self-heating, the thermal efficiency can be as high as 95%. The electromagnetic oven, electromagnetic stove, electromagnetic heating rice cooker and electromagnetic roasting machine all use electromagnetic heating technology

Technical Data:

Model	Capacity (kg/h)	Motor (kw)	Matching Power (kw)	Overall size(L*W*H)(mm)	Pot size (mm)
BSCZ 5-5	10-30	1.5-7.5	0.25	930*660*1270	500*500
BSCZ 5-10	30-60	3-15	0.4	1580*950*1520	500*1000
BSCZ 7-10	50-250	4-32	1.1	1650*950*1520	700*1000
BSCZ 7-15	100-350	6-48	1.5	2000*950*1520	700*1500
BSCZ 9-16	150-300	7-55	3	2000*1190*1650	900*1600

■ BSCL 7-60/7-80 Roasting Machine Line



Product Introduction:

The machine mainly use to produce puffed rice, corn, roast nuts, grains and drying the granular materials.

High degree of automation, Intelligent, Environmental protection. The whole machine is made of stainless steel to ensure sanitation and safety of roasted products, accord with GMP standard. Humanized design, intelligent control, convenient and quick parameter. The highest temperature can reach 400°C. It has self-diagnosis function, the faults code will be shown on the display screen. The heating temperature should be over 215 °C, put the rice into roasting machine, 5 seconds out from the roaster. You will got puffed rice.

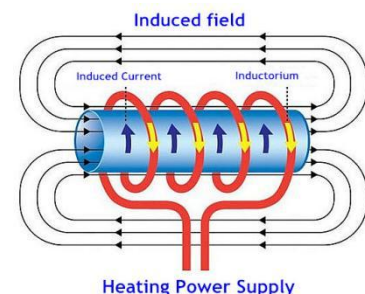
Main Features:

1. Protect environment: electromagnetism transform into heat energy to process the materials, carbon-free and environment-friendly
2. Save energy & low power consumption: roasting machine use the roller with the composite materials to decrease the energy lost. Heat efficiency 95%, save 45% electricity.
3. Save electricity and time: the electromagnetism heating system make the roller heat by itself, without heat medium. Work 30 seconds, the temperature can be 100 degree centigrade.
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5. Human interface: humanization design, intelligent control. Easy to set up the parameter.

Working Method:

The electromagnetic heating system: the electromagnetic control box make the copper wire plate generate the magnetic field, when the roller rotating will cut the magnetic induction line and generate wave to influence the metal roller, and make the metal roller self-heating.

The copper wire plate under the roller, the wire plate is cold, will not be hot when the equipment working, just generate the magnetic field. The metal roller self-heating.





Roasting Machine



Cooling Machine



Control Panel



Elevator



Vibrating Screen



Electric Cabinet

BSCL 7-60 roasting machine line:

Model	BSCL 7-60	Elevator	Vibrating screen	Cooling machine
Capacity	300-500 KG/H	300-500 KG/H	300-500 KG/H	300-500 KG/H
Heat power	155-120 kw	/	/	/
Motor power	3 kw	400w+20w	0.37kw+0.37kw	0.4kw+0.12kw*4
Overall size	6500x1010x1600mm	1750*970*2150mm	1450*800*1510mm	6100*700*560mm
Roller size	700X6000 mm	/	/	/
Voltage	380V/50HZ	220V	220V/380V	220V

BSCL7-80 roasting machine line:

Model	BSCL 7-80	Elevator	Vibrating screen	Cooling machine
Capacity	500-800 KG/H	500-800 KG/H	500-800 KG/H	500-800 KG/H
Heat power	20-180 kw	/	/	/
Motor power	3 kw	400w+20w	0.37kw+0.37kw	0.4kw+0.12kw*4
Overall size	8500x1010x1600mm	1750*970*2150mm	1450*800*1510mm	6100*700*560mm
Roller size	700X8000 mm	/	/	/
Voltage	380V/50HZ	220V	220V/380V	220V

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