

## BLGZ型系列闭路式干燥

产品名称	BLGZ型系列闭路式干燥
公司名称	常州市益民干燥设备有限公司
价格	面议
规格参数	加工定制:是 类型:高效沸腾干燥机 型号:BLGZ
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## 产品详情

blgz型系列闭路式干燥、冷却机

pharmaceutical industry and so on.

4. for drying of large granules, small blocks and low-viscosity material.

工作原理：

以氮气为传导传热介质，实现对制药、生化、化工、生物等技术领域含有机溶媒、溶剂物料的干燥生产与溶媒、溶剂的回收，具备安全生产、高效、低耗节能减排的实用性。

干燥机内的气体在风机（引风、送风兼用）的循环下，经换热器加热，由高效过滤器过滤后进入沸腾式加热、干燥物料，热风穿过物料的同时由内搅拌机构的不断搅拌下使物料与热空气充分接触换热。待物料内的溶媒（酒精、丙酮、甲醇等）蒸发出来，在循环气体的带动下，夹带于气体中的细粉物料，经氮气反吹除尘器，实现对夹带于气体中的粉尘物料进行捕集，余热气体经由过滤器过滤后进入冷凝器，经冷凝器冷却介质，冷凝至露点和气体分离，实现对有机溶媒的回收。分离后的气体再由风机送入加热器，这样周而复始的循环工作。直至将所有的溶媒从物料中蒸发、分离、冷凝出来。

干燥后物料经过冷却后从底部再排放出来，盛放物料的网板是由气缸控制的可活动翻板。

物料排放完毕后，可用风机对干燥室内的过滤器进行清扫过滤。

working principle:

take nitrogen as medium for heat transfer, to realize solvent recovery and drying of material with solvent, with features of safety, high efficiency, low energy consumption and so on.

air under the circulation function of fan(both blower fan and suction fan),after heated by steam radiator and filtrated by hepa filter, entry into fluid bed dryer to dry the material. at the meantime, under the continuous stirring of stirring system inside the dryer, hot air and raw material exchange their heat fully. after solvent (alcohol, acetone, methanol and so on)steamed out, fine powder together with circulating gas come out, fine powder caught by nitrogen blowback system. waste-heat air after filtrated by filter entry into compensator, solvent is cooled to dew point and separated from air, so solvent recycled. separated air is fed into air heater by fan, go round and begin again like this..until all solvent is steamed out, separate and recovered.

after drying, products are discharged from the bottom of the dryer, net plate for material is flexible reverse turning bed and controlled by cylinder.

after all products discharged, fan can clean the air filter inside the dryer.

设备的特点及优势：features and advantage.

## 1.高效

设备为全封闭结构，无死角，出风、进风均采用高温高效过滤，整个系统采用三级除尘，除尘效率更高，且易拆装、清洗。在物料干燥完成后，使用反吹技术，除尘更彻底，减少清洗频率，操作简单，有效降低劳动强度并可避免产品受污染的情况，符合gmp要求。

设备能够长期稳定的连续运行，自动化程度高。既可干燥、冷却溶媒，又可冷却物料，干燥效率比回转、耙式的高，可提高4~5倍的干燥速度，同时干燥后的产品品质稳定，为用户创造更大的产品价值。

根据客户需要，可配备真空上料、出料，提高一体化智能操作。

## 2.安全

基于有机溶剂具备易爆易燃的安全危险性，本机组系统内同时采用在线测氧、超压泄放和防爆、泄爆等安全技术手段，通过智能化控制技术，实现对系统内氧气残留量的监测，气压平衡监测和自动调节控制。当系统内的空气（氧气）含量超过0.5%（v/v）时，测氧装置即会通过控制系统指令氮气补充阀打开，向系统内补充新鲜氮气，使系统内的氧气残留量恢复到安全设定值的范围内（闭路循环系统设计为正压，氧气的进入则是通过加料过程进入循环系统）。当系统内的气压值超过设定值时（循环系统气压平衡值设定为0.02mpa），泄压装置则会通过智能控制中心指令，自动打开泄压气动阀，排除超压气体，而防爆泄爆装置，则是本机组采用的另一项安全技术措施，即系统内电气或关键部位发生故障，系统正常工作失灵，气压升高至安全极限值（系统设计耐压值小于等于0.05mpa），防爆泄爆装置即会自动打开定向泄爆并自动切断电源，关闭进出管道阀门，保证溶媒没有与氧气反应的可能性，有效的避免设备在生产过程中发生火灾或爆炸事故，最大限度的规避人员伤亡和财产损失，确保生产安全。

## 3.节能.

设备是全封闭式系统，热介质经过网板向上吹起物料，与物料的接触更充分，使传热和传质过程得以强化，在较小的风量下能够达到较高的气体含湿量，因此工作时只需要微正压，风量较小，设备的风机功率降低，噪音变小，同时干燥之后含有溶媒的热湿气，经过冷凝器分离后，回收的溶媒可以再次利用，同时，低露点的氮气经循环风机后进入加热器重新加热循环利用，与常规烘干设备相比，热效率提高了，动力消耗明显下降，因此节约了设备的能源损耗及生产成本。

## 4.环保

本机组实现对含有溶媒物料在干燥生产工艺过程中的回收利用，在解决相关行业在干燥难与废气排放污染重的基础上，实现溶剂回收利用，同时做到零排放，避免了尾气对环境的污染，获得节能减排的

实用性效果。

### 1.high efficiency.

this machine is fully enclosed structure, no dead corner, both air exhaust system and air in system takes high-temperature and high-efficiency filter. the whole system has 3 levels of dust catcher, with high-efficiency dust catcher, easy to discharge and clean. after drying finished, because of blowback system, dust elimination is more thoroughgoing, reducing cleaning frequency, which can reduce labor intensity and avoid pollution of different products, low viscosity, meeting gmp standards.

this machine can work continuously and steady in a long term, high degree of automation. it not only can dry, cool solvent, but also can cool raw material, drying efficiency is higher than other dryer, 4 to 5 times drying speed. and, the finished products have good quantity, which can create bigger product value for the user.

according to the user ' s requirement, vacuum feeder, vacuum discharger for optional, to enhance automatization degree.

### 2. safety.

because of flammable and combustible dangerous of organic solvent, this machine take safety technologists including on-line oxygen checking, explosion-proof, explosion venting and so on. through intelligentized control technology, to monitor oxygen residues/pressure balance in the system and automatic modulation control. when air(oxygen) content exceed 0.5%(v/v),oxygen checking device open the replenishing valve to supply fresh nitrogen by control system, to recovery the oxygen residues to a safety value(closed-circuit system is designed into positive pressure,oxygen entry into circulation system by material feeding).when air pressure inside the system exceed setted value(air pressure balance is setted into 0.02mpa),explosion venting device will automatically open decompression pneumatic valve to exhaust some air by intelligentized control .the explosion-proof and explosion venting system is another safety technology of this machine, that is when certain electrical equipment or key device damaged, the system is out of normal working and air pressure up to safety ultimate value( 0.05mpa),explosion-proof and explosion venting system will be automatically opened, power cutted off and pipe valve closed, there is no probability of solvent reacting with oxygen,which avoid fire damagesor explosion during machine working.to make sure safety production.

### 3. saving energy.

this machine is full closed system. hot air through net board blow up the material. hot air contact with material fully.

the process of heat transfer is enhanced. at a few air condition, a high air moisture can be got, so only micro positive pressure during working, needed air quantity is small. fan power of this machine is smaller and less noise. at the meantime,

hot air with solvent after drying is separated by condensator. the recovered solvent can be reused. so saving energy and production cost. also, low dew point nitrogen is sent to air heater for cyclic utilization by fan. compared with common dryer, thermal efficiency enhanced, power consumption reduced, so heat consumption and production cost saved.

#### 4.environmental protection.

this machine recovery the solvent from raw material during drying process based on solving the problem hard drying and heavy pollution. at the meantime, zero exhaust avoid environmental pollution because of waste gas.

#### 技术参数 : technical parameters

型号model		60	120		150
项目item		单位unit			
原料容器 container of raw material	直径dia.	mm	900	1000	1100
生产能力 production capacity	最小min	kg/batch	40	70	90
	最大max	kg/batch	65	135	170
蒸汽耗量 steam consumption		kg/batch	130	210	240
氮气量nitrogen consumption		m3/min	0.6	0.6	0.6
风机功率power of fan		kw	11	18.5	22
溶媒回收率 solvent recovery percentage		%			
温度temperature			常温~140 根据物料特性调节 (		
物料收率product ratio		%			
终含湿量final moisture		%			
噪音noise		db(a)			
外形尺寸 (长x宽) overall dimensions(lxw)		mm	6852x3740	7266x3803	7340x3803
高度height	h1	mm	4800	5500	5700
	h2	mm	4000	4100	4200

说明 : 以上参数仅供参考 , 干燥强度与物料特性、使用温度等因素有关。

notes:parameters above for reference only.drying capacity depends on material features,

drying temperature and some other factors.

blgz series closed-circuit drying and cooling machine

本产品的加工定制是是，类型是高效沸腾干燥机，型号是BLGZ，功率是11（kw），适用物料是颗粒状，外形尺寸是6852\*3740（m），品牌是益民，应用领域是医药食品化工  
应用范围：

- 1.主要用于含有溶剂、溶媒的物料的干燥和溶媒的回收
- 2.摇摆颗粒、湿法高速混合制粒含有溶剂的颗粒物料干燥
- 3.医药、食品、化工等领域含有溶剂的湿颗粒和粉状颗粒的干燥
- 4.大颗粒或小块状以及较小粘性的物料的干燥

application :

1. mainly used for solvent recover and drying of material with solvent.
2. for drying of material with solvent from sway granulator and high-speed mixing granulator.
3. for drying of wet granules and powder granules with solvent in food stuff, chemical industry,