

XF Series Horizontal Fluidizing Dryer

XF沸腾干燥机

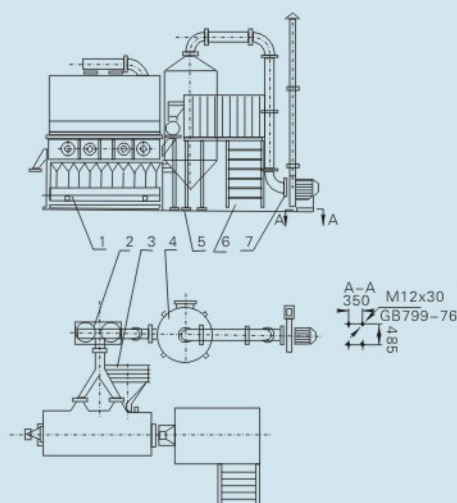


特点 Features

沸腾床干燥机可实行自动化生产, 是连续式干燥设备。干燥速度快, 温度低, 能保证产品质量, 符合药品生产GMP要求。蒸汽、电、热风炉均可配用。

This fluidized bed dryer can achieve automation and continuous drying process. It has a high drying speed and a low temperature and the product quality can be ensured, meeting GMP requirements. The heating resource can be steam, electricity or furnace.

工艺流程简图 Sketch of Flow Chart



30型 旋风式 Model 30 cyclone separator

- 1、主机
 - 2、风机
 - 3、加热器
 - 4、旋风分离器
 - 5、加料器
 - 6、操作台
 - 7、引风机
- 1.main machine
2.air blower
3.heater
4.separator
5.feeder
6.controller
7.blower

概述 Description

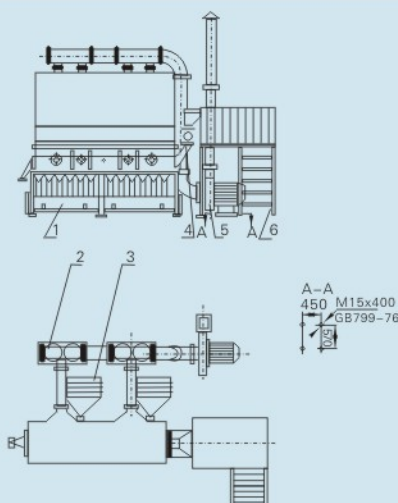
沸腾床干燥机是由空气过滤器、加热器、沸腾床主机, 星形加料器、旋风分离器、布袋除尘器、高压离心风机, 操作台等组成, 由于干燥物料的性质不同, 沸腾床干燥机配套除尘设备时, 可按需要考虑, 可同时选择旋风分离器, 布袋除尘器, 也可选择其中一种, 一般来说比重较大的如冲剂及颗粒物料干燥只需选择旋风分离器, 比重较轻的小颗粒状和粉状物料需配套布袋除尘器, 并备有气流送料装置供选择。星型加料器由用户选配。

A fluidized bed dryer consists of air filter, heater, fluidized bed, rotating segment feeder, cyclone separator, bag dust remover, high press. centrifugal fan and stage for operation. According to different characters of different materials to be dried, the dryer can be equipped with both cyclone separator and bag dust remover or with either of them. Generally speaking, for those pellet materials with a large specific gravity, only a cyclone separator is needed. And for those granule or powder materials with a small specific gravity, a bag dust remover is needed and so is a pneumatic conveying device if possible. The dryer can also be equipped with a rotating segment feeder if required.

应用 Application

沸腾床干燥机适用于散粒状物料的干燥。如: 医药药品中的原料药, 压片颗粒料, 中药冲剂, 化工原料中的塑料树脂、柠檬酸和其它粉状、颗粒状物料的干燥除湿。食品、粮食加工, 饲料干燥中的食品饮料冲剂, 玉米胚芽、饲料等的干燥。物料的粒径一般最佳粒径为0.5~3mm。

This fluidized bed dryer is suitable for drying pellet or granule materials such as raw materials for medicine, pellets, traditional Chinese medicine drink granules in pharmaceutical industry; plastic resin, citric acid and other powder or granule materials in chemical industry. It also can dry grain, corn embryo, feed etc. The most suitable diameter of the materials is 0.5~3mm.



30型 内袋式 Model 30 dust remover of inner bag

- 1、主机
 - 2、除尘器
 - 3、加热器
 - 4、加料器
 - 5、引风机
 - 6、操作台
- 1.main machine
2.extractor
3.heater
4.feeder
5.blower
6.controller

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原理 Principle

散粒状固体物料由加料器加入沸腾干燥机中，过滤后的洁净空气加热后由鼓风机送入流化床底部经分布板与固体物料接触，形成流态化达到气固相的热质交换。物料干燥后由排料口排出，废气由沸腾床顶部排出经旋风除尘器组和布袋除尘器回收固体粉料后排空。

Granule or pellet solid materials are fed into the fluidized bed dryer through the feeder. Filtrated clean air is heated and charged onto the bottom of the fluidized bed to contact with the solid materials on the distributing plate, where fluidization can be reached and the heat exchange between solid and air can be achieved. After being dried, the products are discharged from the outlet. Waste gas is discharged from the top of the fluidized bed, and powder materials are recovered by the cyclone separator or bag dust remover.



安装说明 Instructions for installation

沸腾床、旋风分离器及布袋除尘器安放在平整的水泥地平上即可，不需底脚螺丝。风机可安装在室内或室外，需有底座及地脚螺丝。平面布置可根据厂房情况酌情调整。

风道系统应不漏气，以免影响干燥效果。

Fluidized bed, cyclone separator and cloth bag dust extractor should be placed on flat concrete ground without any screws on foundation. The air blower may be installed indoors or outdoors with foundation and screws. The plane design can be partly adjusted in accordance with the building conditions. No air should leak from the air pipe system so as not to influence the drying efficiency.



技术参数 Technical parameters

参数 Parameter 型号 Type	床层面积 m ²	干燥能力 (水kg/h) Drying capacity (water Kg/h)	风机 Air blower			进风温度 (℃) Air intake temp	出料温度 (℃) Material discharge temp	**加热耗能 Heating energy consumption	
			功率 (kw) Power	风压 (Pa) Air pressure	风量 (m ³ /h) Air volume			蒸汽 (Kg/h) Steam	电 (kw) Elec power
XF-10A	0.25	10 ~ 15	5.5	4900	2300	60 ~ 140	40 ~ 80	50	30
XF-10B	0.25		4	3800	2300				
XF-20A	0.5	20 ~ 25	7.5	5000	3100			100	60
XF-20B	0.5		5.5	3500	3100				
XF-30A	1.0	30 ~ 45	15	6000	4200			150	90
XF-30B	1.0		11	4700	4200				
XF-50A	2.0	50 ~ 80	22	7400	6000			250	150
XF-50B	2.0		18.5	5900	6000				

“干燥能力”：酸梅晶以、初含水份20%、终含水份5%、进风温度130℃而测定，其它物料干燥能力将根据不同情况而定。

“加热能耗”：蒸汽或电可单独使用。

“Drying capacity”: when drying sweet-sour plum crystals, it should be measured on the basis the primary moisture contents of 20% and final moisture contents of 5% and the air intake temperature at 130℃. The dry capacity of other materials should be based on different drying conditions.

“Heating energy consumption”: Steam or electric power may be used separately.