

ZLG Series Rectilinear Vibrating-fluidizing Dryer

ZLG 系列振动流化床干燥机



特点

- 振动源是采用振动电机驱动,运转平稳,噪音低,寿命长,维修方便。
- 热效率高,比一般干燥装置可节能30%以上。床层温度分布均匀,无局部过热现象,流态化匀称,无死角现象。
- 可调性好,适应面宽,料层厚度和在机内移动速度以及全振幅变更均匀可实现无级调节。
- 对物料表面的损伤小,可用于易碎物料的干燥;物料颗粒不规则时亦不影响工作效果。
- 采用全封闭式结构,有效地防止了物料与空气间交叉感染作业环境清洁。
- 当用于高水分物料大批量生产时,可采用多台串联的方式以达到用户要求(典型物料:如聚丙烯酰胺等)。

概述 Description

ZLG振动流化床干燥机广泛适用于化工、轻工、医药、食品、塑料、粮油、矿渣、制盐、糖等行业的粉料颗粒状物料的干燥、冷却、增湿等作业。

The drier is suitability in chemical industry, light industry, pharmaceutical, food, plastic, oil, slag, salt, sugar and so on, for drying, cooling and wetting.

原理 Principle

物料自进料口进入机内,在振动力作用下,物料沿水平方向抛掷向前连续运动,热风向上穿过流化床同湿料换热后,湿空气经旋风分离器除尘后由排风口排出,干燥物料由排料口排出。

Raw material is fed into the machine and moves forward continuously along with the level of fluidized-bed under the action of vibration. The hot air passes through fluidized-bed and carries out heat exchange with damp raw material. Then the damp air is exhausted out through cyclone separator and the dry raw material is discharged through discharge outlet.

Features

- The vibration created by motor is stable in operation and convenient in maintenance, low noise and long life.
- High efficiency, raw material is heated evenly and heat exchange is fully used and dry capacity is high. Compared with ordinary drier, the energy can be saved about 30%.
- It is good in regulation and wide in suitability. The thickness of raw material layer and movable speed inside the machine and the amplitude can be adjusted through continuous variable speed.
- It is small for damaging the surface of raw material. The equipment can be used for drying raw materials that are easy broken. The drying effect can not be affected even if raw materials have irregular shape.
- A fully enclosed structure, effectively prevent the material and the air space between the cross infection of the working environment clean.
- You can string multi-sets to raise capacity of raw materials, if the raw material contain high moisture such as polyacrylamide.



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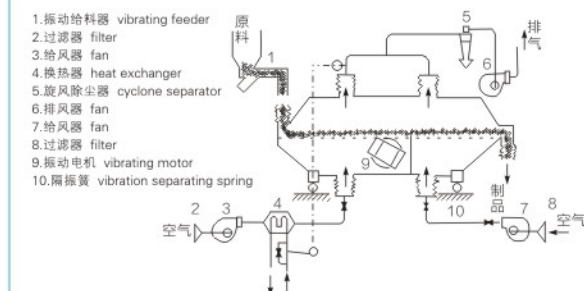
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应用 Application

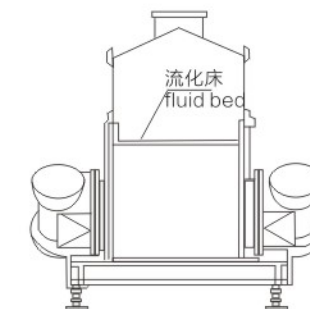
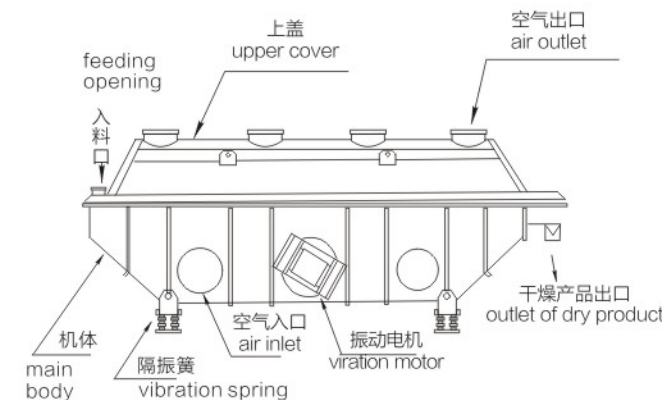
适用于化工、制药、食品、脱水蔬菜、粮食、矿产等行业的粉状、颗粒状物料的干燥、冷却等作业,如:柠檬酸、味精、硼砂、硫酸、复合肥、萝卜丝、豆粕、酒糟、种子、矿渣、砂糖等。

It is suitable for the operations of drying, cooling for powder or granule raw materials. They may be citric acid, monosodium glutamate, borax, ammonium sulphate, compound fertilizer, piece of radish, bean, lees, seed, mine residue and sugar, in chemical, pharmaceutical, foodstuff, grain, mine and so on industries.

振动流化床配套系统图 Complete System Chart of Vibrating Fluidized Bed



结构示意图 Schematic of structure



技术参数 Technical parameters

机型 Model	流化床面积 Area of fluidized-bed (M²)	进风温度 Temperature of inlet air (°C)	出风温度 Temperature of outlet (°C)	蒸发水份能力 Capacity to vapor moisture(kg/h)	振动电机 Vibration motor	
					型号 Model	功率 Power kw
ZLG3×0.30	0.9	70 ~ 140	40 ~ 70	20 ~ 35	YZS8-6	0.55×2
ZLG4.5×0.30	1.35			35 ~ 50	YZS10-6	0.75×2
ZLG4.5×0.45	2.025			50 ~ 70	YZS15-6	0.75×2
ZLG4.5×0.60	2.7			70 ~ 90	YZS15-6	1.1×2
ZLG6×0.45	2.7			80 ~ 100	YZS15-6	1.1×2
ZLG6×0.60	3.6			100 ~ 130	YZS20-6	1.5×2
ZLG6×0.75	4.5			120 ~ 170	YZS20-6	1.5×2
ZLG6×0.9	5.4			140 ~ 170	YZS30-6	2.2×2
ZLG7.5×0.6	4.5			130 ~ 150	YZS30-6	1.5×2
ZLG7.5×0.75	5.625			150 ~ 180	YZS40-6	2.2×2
ZLG7.5×0.9	6.75			160 ~ 210	YZS40-6	2.2×2
ZLG7.5×1.2	9.0			200 ~ 280	YZS50-6	3.0×2
ZLG7.5×1.5	11.25			230 ~ 330	YZS50-6	3.7×2
ZLG8×1.8	14.4			290 ~ 420	YZS75-6	3.7×2

注: 部分参数设计时视不同物料有所调整, 以设计为准。