

概述 Description

LPG 系列高速离心喷雾干燥机是一种适用于乳浊液、悬浮液、糊状物、溶液等液体干燥的专用干燥设备。在聚合物和树脂类：染料、颜料类、陶瓷、玻璃类、除锈剂、杀虫药类、碳水化合物、乳品类：洗涤剂 and 表面活性剂类；肥料类：有机化合物、无机化合物料的干燥上，表现的尤为出色。

LPG series high-speed centrifugal spray dryer is a special equipment and suitable for drying emulsion, suspending liquid, liquor and so on, particularly it is good for drying polymers and resins; dyestuff and pigment; ceramics, glass; derust agent; pesticide; carbohydrate, dairy products; detergent and surfactant; fertilizer, organic compound, inorganic compound and so on.



特点 Features

1. 干燥速度快，一般只需 5-15 秒，具有瞬时干燥特点；
2. 物料短时间内完成干燥过程，适应于热敏性物料干燥，能保持物料色、香、味，成品纯度高、质量好；
3. 生产过程简化，操作控制方便、适宜连续控制生产；含湿量 40%-90% 的液体，一次干燥成粉，减少粉碎、筛选等工序；
4. 产品分散性、流动性、溶解性良好，产品粒径、松密度、水份在一定范围内可调。

1. Its dry speed is very quick. Usually, it needs 5-15 seconds. It has feature of momentary dry.
2. Because raw material can be dried momentarily. Especially, it is suitable for drying heat sensitive raw materials. It can maintain color, flavor and smell of raw materials.
3. Its operation is stable and simple. Its regulation and control is very convenient. It is easy to realize continuous production.
4. The distribution, fluidity and solubility of product are good.

工作原理 Principle of work

空气通过过滤器和加热器，进入干燥器顶部的空气分配器，热空气呈现螺旋状均匀进入干燥器。料液由料液槽经过滤器由泵送至干燥器的离心雾化器，使料液喷成极小的雾状液滴，料液和热空气并流接触，水份迅速蒸发，在极短时间内干燥为粉末状成品。成品由干燥塔底部和旋风分离器排出，废气由风机排出。

Air pass through air filter and heater, enters into hot air distributor at the top of dry chamber, then enters into dry chamber uniformly with helix. At the same time liquid of raw material is sent to centrifugal atomizer at the top of dry chamber by pump through filter, liquid of raw material atomizes small drops. Air and liquid of raw material flow and contact fully, The moisture vaporize rapidly, and raw material is dried into powder state in a short time. The finished product is discharged through cyclone separator from the bottom of dryer tower, The exhausted air is discharged through fan.



干燥实例 Typical application

- 食品 氨基酸、维生素、鸡蛋粉、骨粉、调味品、蛋白质、奶粉、猪血粉、酱油粉、咖啡、茶粉、葡萄糖、山梨酸钾、果胶、香精香料、蔬菜汁、酵母、淀粉类等
- 陶瓷 氧化铝、氧化锆、氧化镁、氧化钛、钛化镁、陶土、瓷土、各种铁氧体及金属氧化物等
- 化学制品 聚合氯化铝、分散染料、活性染料、有机催化剂、白炭黑、洗衣粉、硫酸锌、二氧化硅、偏硅酸钠、氟化钾、碳酸钙、硫酸钾、无机催化剂、各种废液等。
- Foodstuff Amino acid, vitamin, egg powder, bone powder, flavouring, protein, milk powder, blood powder, soy sauce powder, coffee, tea powder, glucose, pentadiene carboxylic acid, pectin, flavours, vegetable juice, yeast, starch, etc.
- Ceramic Alumina, zirconia, magnesium oxide, titania, pottery clay, china clay, all kinds of magnetic porcelain and metal-oxides, etc.
- Chemical Aluminium polychlorid, disperse dyes, reactive dyes, organic catalyzer, white carbon black, washing powder, zinc sulfate, silica, sodium metasilicate, potassium fluoride, calcium carbonate, potassium sulfate, inorganic catalyzer and all kinds of waste liquid, etc



工艺流程简图 Sketch of Flow Chart

