YC-501 LABORATORY SCALE SPRAY DRYER

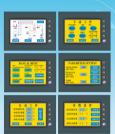
--- YC-501有机溶剂喷雾干燥机 ----



上海雅程仪器设备有限公司
SHANGHAI PILOTECH INSTRUMENT & EQUIPMENT CO., LTD

最新技术, 稳定好用 EASY OPERATION

性大幅度算十.
Since 2005, Shanghai Pilotech has provided mini spray dryer YC-015,
laboratory low-temperature spray dryer YC-1800, pilot sacle spray
dryer YC-018, laboratory vacuum spray dryer YC-2000, laboratory
inert loop spray dryer YC-018A and pilot scale inert loop spray
dryer YC-018A system, having been the leader of laboratory scale
spray dryer [field in global asarket. We have installed over 3000
spray dryers in colleges, institutes and business R80 departments all
over the world. In 2016, in accordance with the principle of
providing reliable and durable products with accuracy and innovation,
focusing on practical laboratory requirements of customers, Shanghai
Pilotech launched brand-new YC-500 mini spray dryer, which was
generated from anny years of spray dryer manufacturing experience
and nodern instrument manufacturing. Thus, the user experience, the



活用范围APPLICATIONS

VC-501支验室有相溶剂调等干燥机主要适用于高校、研究所和食品医疗化工企业实验室生产"微量颗粒粉末、对所有溶洗如 乳浊液、悬浮液具有广谱适用性,适用于水溶液和大多有机溶液物料的喷雾干燥。对热暖感性物的干燥如生物制品、生物 农药、酶制剂等。因所喷出的物料只是在喷成雾状大小颗粒时才受到高温,放只是瞬间受热,能保持这些活性材料在干燥 后仍佛非其活性废价不受破坏。

如: 饮料、食品、刺药、奶制品、蛋制品、植物和蔬菜制品、陶瓷、聚合物、热敏材料、塑料、树脂,香料、肥皂、清洁 剂、氧化物、血液、染料、颜料、粘合剂、纺织品等。

Spray drying can be used in a wide range of applications where the production of a free-flowing powder sample is required. This technique has successfully processed materials in the following areas:

Beverages • Flavours and Colourings • Milk and Egg Products • Plant and Vegetable Extracts • Pharmaceuticals • Heat Sensitive Materials • Plastics • Polymors and Resins • Perfumes • Ceramics and Advanced Materials • Soaps and Detergents • Blood • Dyestuffs • Foodstuffs • Adhesives • Oxides • Textiles • Bones, Teeth and Tooth Amalgam and many others. Most obtained and suspensions can be spray dried providing that the resulting product has the characteristics of a solid material.

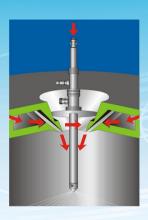
工作原理TECHNIQUE

VC-50) 随着有机落向吻条干燥机(身闭式喷雾干燥 机)采用菜单式微处理控制器 (7英·自始搜屏), 可以直接逻型进口温度、气氛底,自动进纤维来、 泵递、实现数据采集以及过程监控和控制。自吸端 动汞将将电流体从紧密中通过咖啡进入干燥腔。同 时压缩氦气从外层移管进入干燥腔使液体微轮化。 加热的氦气从上层进入与嘴系的的液体散性地态。 物品开始干燥、干燥后的粉粒通过旋风分离器与成 气分离点进入收集矩中。线有有机蒸汽的气流在热 交换器冷却下来,然后溶剂在制冷装置中发生冷凝 便效。洗净的氦气进入下一条筋床中。

A menu driven microprocessor controller allows the selection of inlet temperature, airflow, automatic de-blocker frequency and pump speed. The controller features an RS 232 output for connection to a PC or datalogger and software allows the centrol and monitoring of all functions and printing of results. The self-priming perisability pump delivers the sample liquid from a container through a small diameter jet into the main chamber. At the same time an integral compressor pumps air into the outer tube of the jet which causes the liquid to energe as a fine togained survey.

Heated air is blown through the main chamber evaporating the liquid content of the atomised spray. The solid particles of the material, which are normally in a free flowing state, are then separated from the exhaust air flow by a cyclone and collected in the sample collection bottle. The exhaust air flow is directed through a flexible 60 mm diameter hose direct to atmosphere or to an existing extraction system.

into the drying chamber.





技术参数

TECHNIACL INFORMATION

全自动控制与手动控制双重控制模式,整个实验过程彩色触摸屏动态显示 (动画) Two modes of run: Automatic-mode, and Eye-monitored mode for the purpose of easily controlling experimental process.

进风温度控制: 60 ℃ ~200℃ Air inlet temperature range 60°C to 200°C

出风温度控制: 45℃ ~100℃ Air outlet temperature range 45°C to 100°C

物料处理量: 最大500mL/H Evaporation rate of water at inlet temperature of 200°C using Standard:Approximately 500 ml/hour

最大进料量: 蠕动泵可调最大为2000ml/h Max. Sample feed: 2000ml/h

最小进料量: 30mL(视物料性质如固形物含量等差异而有一定变化) Min. Sample : 30mL

实时调控PID恒温控制技术. 加热控温精度: ±1°C 干燥时间: 1.0~1.5S To assure accurate temperature control and easy parameter adjusting, YC-015 applies PID. Temp. Precision:±1°C, dry cycle time: 1.0-1.5S

彩色LCD触模屏参数显示,进风口温度/出风口温度/蠕动泵转速 /风量/通针频率 As standard a touch screen to display temperature, airflow volume, air pressure, pump speed and de-blocker frequency.

喷嘴口径: 0.5mm/0.7mm/0.75mm/1.0mm/1.5mm/2.0mm可选, 并可根据要求定制, 设 有喷咀清洁器 (通针), 在喷咀被堵塞时, 会自动清除, 通针的频率可自动调整 standard with 0.7 mm let and other sizes are available as accessories 干燥空气通量: 最大风量0-330m3/h 最大风压686Pa Blowing rate: 0-330m3/h, 686Pa

加热器功率: 1KW AC220V 单相 + 地 Power: 1KW AC220V

压缩机最大产气量4.2m3/h, 工作压力2-5bar Air compressor: 4.2m3/h, 2-5bar

喷雾头为同心喷雾头,雾化时确保没有任何偏心而导致 喷到瓶壁一侧,喷雾头安装后可以上下移动,以利于调 繁雾化位置改善喷雾干燥效果;

Isocountric spray bodd: during experiments, the new spray head would never be off-center in atomization, and there won't be affected recovery rate by spraying on the bottle wall. The spray head can change the spray site to improve the spray effect by moving up and down; notebly, the spray head has excellent adaptability to material with high viscosity and few blocking situation;

可用于水溶液和有机溶液的喷雾干燥 (用于有机溶剂时 需配备氮气循环系统)

For solution & solvent



主要特点

ADVANTAGES

1) 首创国内桌上型,设备即可安置在实验台上,也可以放置在雅程製气循环系统YC-501上,设备小巧,方便操作;

The first on-table model: the instrument can be placed on the experiment table, or Pilotech inert loop system YC-501, featuring small size and convenient operation;

2)可用于水溶液和有机溶剂: YC-500实验室喷雾干燥机分为基本型和有机溶剂型,基本型适用于水溶液的喷雾干燥,选配了YC-501氦气循环系统后,即可升级成有机溶剂型,升级简单;

For appears solution and organic solvent: WC-500 mini spray dryer has the basic type and the organic solvent type WC-501 (with inert loop system). WC-500 is for appears solution, which can simply be updated to organic solvent type after equipped with WC-501 inert loop system;

3)基本型升级成有机溶剂型,只需要购买10°50组件即可。由于预算的限制。很多有有机溶剂干燥需求的科研人员,只愿购买涂消液型购卖干燥机。但是后面。又只好再次购方有机溶剂型购卖干燥机。造成科研经费的股大液费。10°500型实验室是上型喷雾干燥的同时,彻底解决了这一问题。40°40人员购买了基本型后。后期只需要再购买0°501氢气循环系统。即可组成时闭定喷雾干燥机。而且连接非常方便,干燥水溶液时用压缩空气、干燥体闭液即使用聚气。科研人员再医主需为这些问题的能了。

To ugarde the basic type into organic solvent type, W.501 sait is the only thing to be brought: due to limited budget, many researchers with the requirement of organic solvent drying can only afford the agreeous solution type. Beavew, they may later need to buy agreeous solution, which greatly wastes the scientific research funds. The W.500 type laboratory on-table spray dryer completely solved this problem. The researchers only need to buy the W.500 hitrogen cycle system to form the enclosed spray dryer after having the basic type. The connection is convenient. Using compressed air with agreeous solution and nitrogen for organic solvent, researchers will not be amonged by these problems;

4)同心喷雾步;实验这程中,该游馆喷雾头雾化时绝对不偏心,不全喷雾时喷到瓶壁而影响回收率,喷雾头 可以上下移动而改变雾化位置,以改海喷雾干燥效果,尤其值得一提的是,该喷雾头对高粘稠度物料的适应 性非常好,很少即思绪摩嚓雾水防圾塞;

Honcentric spray bead: during experiments, the new spray head would never be off-center in atomization, and there won't be affected recovery rate by spraying on the bottle wall. The spray head can change the spray site to improve the spray effect by moving up and down; notably, the spray head has excellent adaptability to material with high viscosity and fee blocking situation; 5) 尾气除尘装置: YC-500标配尾气除尘装置, 医减少了环境污染, 又有效的提高了得 率, 特别是提高了不易问收物料的得率,

Tail gas dedusting equipment: YC-500 standard tail gas dedusting equipment can reduce environmental pollution while effectively improving the yield. especially the yield of difficult recycle:

6) 新型的加热器,实验室喷雾干燥机的加热丝容易烧断是个难题,YC-500有效解决了 这一问题,科研人员再也不用担心经常需要更换加热器了,

New type of heater: It is a challenge that laboratory spray dryer's heater strip can be easily burnout. The YC-500 effectively solved this problem and the researchers will not worry about changing the heater frequently;

国内部分客户(排名不分先后)



























































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