



YC-1000实验室喷雾干燥造粒包衣机 YC-1000 LAB SPRAY GRANULATOR

YC-1000实验室喷雾干燥造粒包衣机（流化床制粒）是上海雅程开发的集成喷雾干燥，喷雾造粒，包衣一体的实验室设备，专为实验室大颗粒粉末制粒包衣需要而生产。

Developed by Shanghai Pilotech Instrument & Equipment Co., Ltd., YC-1000 Laboratory spray granulator (fluidized bed granulation) combines spray dehydration and granulation focusing on large particles powder granulation in laboratory.

特点Features

将喷雾干燥，喷雾制粒和包衣3道工序集成在一台设备中完成，为国内外首创

Three processes of spray dry, granulation and coating in fluidized bed spray granulation are completed in one equipment.

最低需要50克的样品即可完成实验。

The experiment requires a minimum amount of samples of 50g.

占地面积小：仅占地0.5平米，可直接放在实验台上。

Small area coverage of 0.5 square meters that can be placed on the laboratory table.

工艺流程简单、设备紧凑、能耗低、环保性能好。

Simple process, concise equipment, low power consumption and environmental performance.

适合于热敏物料和颗粒易溶化样品。

Suitable for heat-sensitive materials and samples of easy dissolving particulates.

PLC操作控制，整个工艺实验状态彩色LCD触摸屏显示

PLC operation control. Color LCD touch screen displays the whole experimental process.

关机保护功能：关机时只需按停止键，机器除风机外立即停止运行，保证设备不会因为误操作（强行关风机）而导致加热部分烧坏。

Shutdown protection: press the stop button and the machine (except the fan) stops working immediately so that heating parts will not be burnt due to misuse (forced shutdown of the fan).

整机全不锈钢制作，二流体喷雾的雾化结构

Stainless steel machine body and two-fluid spray atomization structure.



实时调控PID恒温控制技术

Real-time control on PID temperature.

喷雾干燥参数 Spray dryer parameter

进风温度: 105~200°C

Inlet air temperature: 105~200°C

处理量: 1500ML/H

Capacity: 1500ML/H

流化床控制参数 Fluidized bed control parameters

● 流化空气进气速度: 最大150立方/小时

● Fluidized inlet air speed: 150 cube per hour at maximum

● 流化空气进风温度: 40°C~150°C

● Fluidized inlet air temperature: 40°C~150°C

● 蠕动泵的流量: 可调节, 2000ml/h

● Peristaltic pump: adjustable, 2000ml/h

● 喷雾雾化的空气压力: 0.15~4BAR

● Air pressure for spray atomization: 0.15~4BAR

● 喷雾样品的量: 1000克/次

● weight of spray sample: 1000g/batch

技术指标 Technical data

膨胀室体积: 10升

Expansion chamber volume: 10L

风机功率 1.5KW

Fan power: 1.5KW

加热功率 3KW

Heating power: 3KW

膨胀室材料: 高硼硅玻璃以及不锈钢

Expansion chamber materials: high borosilicate glass and stainless steel



最高进气速度可达: 150M³/H

Maximum inlet air speed: 150m³/h

压缩空气压力: 0.15Mpa~0.6Mpa, 压缩空气耗量: ≤4M³/H

Air compression pressure: 0.15Mpa~0.6Mpa; Air compression consumption: ≤4m³/h

物料处理量: 最高1000克/次(造粒)

Material treatment capacity: 1000g/batch

彩色LCD触摸屏参数显示: 进风口温度/物料温度/风机频率

Color LCD touch screen parameters: air inlet temperature/material temperature/fan frequency

进风温度: 40°C~150°C

Inlet air temperature: 40°C~150°C

电压: 220V/50Hz, 5KW

Voltage: 220V/50Hz, 5KW

尺寸: 800×600×1300 mm

Size: 800×600×1300 mm

重量: 125Kg

Weight: 125Kg

应用领域 Application area

制药产品/ 食品和饲料/陶瓷产品/塑料、橡胶/聚合物和树脂/ 生化产品/ 化学品和化肥/ 香水/色素和染料/蔬菜和植物提取物/芳香物/粮食作物等等

Pharmaceutical product/food and feed/ceramic product/plastic and rubber/polymer and resin/biogenetic product/chemicals and fertilizer/perfume/ coloring matter and dye/vegetable and fruit extract/ aromatic substance/grain crop, etc.

应用范围 Application

喷雾干燥和微粉化、微胶囊化、合成和提取产品的恢复、悬浮液干燥、颗粒尺寸控制和结构修正

Spray dehydration and micronization, microencapsulation, restoration of product composition and extraction, suspending liquid dehydration, particle size control and structure revision