

YC-019中试喷雾干燥机技术参数

Technical Parameters

Of YC-019 Laboratory Spray Dryer

YC-019中试型喷雾干燥机是上海雅程仪器设备有限公司多年来深耕喷雾干燥领域的创新性产品，该机是针对目前中试型喷雾干燥机体积大，噪音大，功率大，回收率低，操作不方便等缺陷而开发的革命性新品，是新型的可用于实验室中试喷雾干燥机。整机占地不足一个平米，工作时非常安静，回收率特别高，一键式开机，彩色大液晶触摸屏操作，方便操作和实验过程的监控。是目前体积小，噪音低，实验室喷雾造粒颗粒粒径宽（1~100微米），干燥效果非常出色的一款小试中试型喷雾干燥机。

YC-019 pilot-scale spray dryer is an innovative product of Shanghai Pilotech Instrument & Equipment Co., Ltd. through years of exploration and research. Compared to current pilot-scale spray dryers, this machine has the advantages of small volume, lower noise, low power, high recovery rate and convenient operation, which can be used in the laboratory. The whole machine occupies less than one square meter. It is configured with one-button start-up and the color LCD touch screen for easy operation. Also, it can run automatically or manually for monitoring in the experimental process. It generates spray particles with a diameter of 1 to 100 microns and performs excellent in drying.



1、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 .

2、进风温度控制：最高350℃，最低进风温度105° C（可实现瞬间干燥），出风温度：最高160℃

Air inlet temperature range 105-350℃ ,air outlet temperature range 65-160℃

3、喷雾头为加长型（长度310毫米）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，喷雾头安装后位置可以上下移动，以利于调整雾化位置改善喷雾干燥效果；

The spray head is a concentric one. It guarantees no eccentricity during atomization that may lead to spraying to the bottle wall. The spray head can move up and down after installed to facilitate the adjustment of the atomization position to improve the spray drying

4、物料处理量最大3500~5000mL/H

Capacity:3500~5000ml/h



5、蠕动泵可调最大为5000ml/h，干燥后的颗粒最大可达100微米

Max. Sample feed:5000ml/h

6、最小进料量：50~100mL

Min. Sample:50~100ml

7、实时调控PID恒温控制技术，加热控温精度： $\pm 1^{\circ}\text{C}$

To assure accurate temperature control and easy parameter adjusting, YC-019 applies PID. Temp. Precision: $\pm 1^{\circ}\text{C}$, dry cycle time: 1.0-2.5S

8、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。

Temperature protection: At the end of the experiment, the heater temperature is extremely high, which requires the blower continue working to reduce the internal temperature to ensure the safety of the equipment. YC-019 Laboratory Spray Dryer's program can automatically control the rotation of the blower. Even if the operator makes a mistake, user still cannot shut the blower down until the system temperature is reduced to the system default safe state. Then the blower will automatically stop;

9、彩色LCD触摸屏参数显示：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.

10、喷嘴口径：0.8mm/1.0mm/1.5mm/2.0mm可选，并可根
据要求定制

Standard with 2.0 mm jet and other sizes are available as accessories

11、设有喷嘴清洁器（通针），在喷嘴被堵塞时，会清除，通针的频率可调

De-blocker frequency.

12、干燥室，旋风分离器，收集瓶，收集管材质均为304不
锈钢

SUS 304 stainless steel.

14)加热器功率：6.5KW AC220V 单相 + 地

Power: 6.5KW AC220V