

# YC-3100中试型真空喷雾干燥机

## YC-3100 Vacuum Spray Dryer

YC-3100真空喷雾干燥机是中试型真空低温喷雾干燥机，是热敏性物料快速干燥的最有效方式，实现了低温条件(最低50℃) 物料的瞬间干燥，为热敏物料提供了极为方便极为安全的干燥方法，如酶制剂活菌等生物制品，含糖量高的中药天然产物提取物，不耐热的高分子材料，遇热气化的材料等等。

YC-3100 Pilot Vacuum Spray Dryer is an innovative product in the field of spray drying. Its development takes nearly 20 years for Shanghai Pilotech Instrument Equipment Co., Ltd. It is the most effective way to dry heat sensitive material rapidly. It can achieve the instant drying of materials at low temperatures (the minimum is 50 °C). It provides an extremely convenient and extremely safe method for drying heat sensitive materials. Such materials include enzyme preparation, viable bacteria and other biological products. They also include natural extracts from traditional Chinese medicines with high sugar content, heat-labile polymer materials, materials that gasify when exposed to heat, etc.

YC-3100真空喷雾干燥机创新性的在喷雾干燥过程引入真空方式，极大的降低了进风温度和出风温度，实现了在极低的进风温度下，物料能得到较好的干燥，同时又较好的保留了物料的物理性质和化学性质，一些只能使用冻干的物料，现在能采用YC-3100真空喷雾干燥机快速干燥。

YC-3100 Vacuum Spray Dryer innovatively introduces the vacuum method to the spray drying process. This greatly reduces the inlet and outlet temperatures. Therefore, materials can be better dried at very low inlet temperatures. Meanwhile, the physical properties and chemical properties of materials are better preserved. Now you can use YC-3100 Vacuum Spray Dryer to dry the materials rapidly that can only be dried by freezing.

目前，YC-3100真空喷雾干燥机在很多高校研究所和企业得到了大量的应用，效果良好。

At present, YC-3100 Vacuum Spray Dryer has been widely used in many research institutes in universities and enterprises. And the effect is quite good.



1、整机全不锈钢制作，二流体喷雾的雾化结构  
;Two fluid atomizing structure, made of sus316 stainless steel.Easy operating.

2、喷雾头为同心喷雾头(长度达到350mm或者以上),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,以利于调整雾化位置改善喷雾干燥效果(可选三流体喷雾头,适用更多物料混合需要);

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 effect. The spray head is made of SUS316L stainless steel;

3、额定物料处理量:最大10000ml/h;  
Capacity: Max.10000ml/h

4、最小样品量:200mL(视物料固形物含量差异);  
Mini sample:200ml (Depending on the difference in solid content of the material)

5、实时调控PID恒温控制技术,加热控温精度: $\pm 2^{\circ}\text{C}$ ;  
To assure accurate temperature control and easy parameter adjusting, YC-3100 applies PID.

6、喷嘴口径:3mm;  
Standard with 3mm jet

7、整机功率:20KW/380V;  
Power: 20KW/380V

8、真空度:0.05~0.06MPa;  
Vacuum:-0.05~0.06MPa



9、在低温条件下完成瞬间喷雾干燥 (10000ML/H),干燥后的物料水分含量低于1%,在这种干燥条件下,易氧化、易挥发、热敏性的物质都能很好保持化学结构及生物活性;  
Spray dry at low temperature (inlet temp.  $50^{\circ}\text{C}$ ), especially suitable for heat sensitive material.

10、彩色LCD触摸屏操作控制,全中文操作界面。  
7" high-resolution LCD, PLC controller, human-oriented interface (English), Optimize operation procedure, efficiency, flexibility, easy going and easy learning.

11、进风温度  $50\sim 200^{\circ}\text{C}$   
Inlet air temp.:  $50\sim 200^{\circ}\text{C}$