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## LPG Series High-speed Centrifugal Spray Dryer



# Description

Spray drying is a most widely used craft in liquid molding process and drying industry. It is ideal for producing powdery and granular solid product from the solution, emulsions, soliquid and pumpable paste states. Thus, when the particle size distribution, residual moisture content, bulk density and particle shape must meet a precision standard, the spray drying is an ideal choice.

# Application

- 1、 Chemical industry: sodium fluoride (potassium), alkaline dyestuff and pigment, dyestuff intermediate, compound fertilizer, formaldehyde silicic acid, catalyst, sulphuric acid agent, amino acid, white carbon black, etc.
  - 2、 Plastic resin: AB, ABS latex, urea resin, phenolic resin, dense glue (urea) formaldehyde resins, polyethylene, polyvinyl chloride, etc.
  - 3、 Food industry: fat-rich milk powder, lantet protein, cocoa milk powder, babymeal, hunting blood meal, egg white (yellow), etc.
  - 4、 Food and plants: oats, chicken juice, coffee, instant tea, seasoning meat, protein, soybean, peanut protein, hydrolyzate and so on.
  - 5、 Sugar: corn syrup, corn starch, glucose, pectin, malt sugar, potassium sorbate, etc.
- Ceramics: aluminium oxide, ceramic tile material, magnesium oxide, talcum powder, etc.

# Features

- 1、 Fast drying speed; greatly increasing the surface area of the material after the liquid is atomized; it can instantly evaporate 95% -98% of water in the stream of hot air; it takes only a few seconds to complete drying, which is especially suitable for drying heat sensitive materials.
- 2、 Our products have a good uniformity, mobility and solubility, high purity and good quality.
- 3、 Simplified production process, easy to operate and control. Liquid of 40-60% moisture content (up to 90% for special materials) can be dried into powder products at a time, without crushing and screening after drying, which reduces production process and improve product purity. The size, bulk density, moisture can be adjusted within a certain range by changing operation conditions. It is convenient to do control and management.

## TECHNICAL PARAMETERS

| LPG Dimension / Model            | 5                         | 25                | 50   | 150     | 200-2000                    |
|----------------------------------|---------------------------|-------------------|--|---------|-----------------------------|
| Inlet Temperature °C             | 140-350 Automatic Control |                   |  |         |                             |
| Outlet Temperature °C            | 80-90                     |                   |  |         |                             |
| Max. Evaporation Capacity (kg/h) | 5                         | 25                | 50   | 150     | 200-2000                    |
| Atomizing Method                 | Compressed Air Drive      | Mechanical Drive  |  |         |                             |
| Rotation Speed (r.p.m)           | 25000                     | 18000             | 18000  | 15000   | 8000-15000                  |
| Diameter of Atomizing Disc (mm)  | 50                        | 120               | 120  | 150     | 180-240                     |
| Heat Source                      | Electricity               | Steam+Electricity | Steam+Electricity,Oil, Oil Fuel, Hot Air Furnace |         |                             |
| Max. Heating Power (kw)          | 9                         | 36                | 72   | 99      |                             |
| Overall Dimensions(L×W×H)(m)     | 1.8x0.93x2.2              | 3x2.7x4.26        | 3.5x3.5x4.8                                      | 5.5x4x7 | Depends on Actual Situation |
| Dried Powder Restoring Rate (%)  | ≥95                       |                   |  |         |                             |

# More Photos

