

Spray Dryer System

HM-SD-Q spray drying is a drying process in which the raw material solution is separated into droplets in an atomizer and the powder particle shape product is obtained by direct contact between hot air or other gases and droplets. At present, spray drying technology has been widely used in the production of maltodextrin, detergent, dairy products, dehydrated food, dye, cement and fertilizer. The most common milk powder, instant coffee, convenient food soup and other products are obtained from the spray drying process.

Features:

- (1) Fast drying speed, only a few seconds to complete;
- (2) Suitable for drying heat-sensitive materials;
- (3) Wide range of use: according to the characteristics of materials, it can be used for hot air drying, centrifugal granulation. Most products with very different characteristics can be produced with this machine;
- (4) Because the drying process is completed in an instant, the particles of the finished product can basically maintain the spherical shape of the droplet, and the product has good dispersibility, fluidity and solubility;
- (5) Simplified production process and easy operation & control. Spray drying is usually used for solutions with a solid content of less than 60%. After drying, there is no need for grinding and screening, which reduces and simplifies the production process. The particle size, loose density and moisture of the product can be adjusted by changing operating conditions within a certain range, which is convenient for control and management.
- (6) In order to make the material free from pollution and extend the life of the equipment, all parts in contact with the material are made of stainless steel.

HongVadar relies on the professional design, the strict production management, the fine processing procedure, provides the high efficiency and energy saving equipment system for the customer. Manufacturing factory has passed the international ISO9001 quality system certification, and with the design and manufacturing capacity of pressure vessels. Customers can choose international ISO, EU CE and other standards for equipment design and production according to their needs.

Technical parameter

Model	Drying capacity, kg/h	Feed DS, %	Discharge moisture, %	Heating type	Tower body dia., mm
HM-SD-Q0.10	100	45-50	4-6	Steam + gas burner	1600
HM-SD-Q0.20	200	45-50	4-6		2800
HM-SD-Q0.30	300	45-50	4-6		3200
HM-SD-Q0.50	500	45-50	4-6		4000
HM-SD-Q0.70	700	45-50	4-6		4800
HM-SD-Q1.00	1000	45-50	4-6		5600
HM-SD-Q1.50	1500	45-50	4-6		6800
HM-SD-Q2.00	2000	45-50	4-6		8000