

SERVICES AVAILABLE

- LAB SCALE
- PILOT SCALE
- MANUFACTURING SCALE
- HIGH PURITY SPRAY DRYING

SPRAY DRYING SERVICES

Spray drying is the method whereby solutions or slurries are rapidly dried to final particulate form by atomizing the liquid into a heated chamber. By making the droplets small enough and the chamber large enough, the droplets are dried before the droplets reach the wall of the chamber. The resulting product is a free-flowing material.

In a typical drying operation, the slurry to be dried is pumped into the chamber to atomizers or spray nozzles designed to disperse the liquid slurry into a controlled drop size spray. AVEKA's atomization techniques includes two-fluid nozzles and single-fluid high pressure swirl nozzles. The droplets of the solution or slurry are then introduced into the hot gas/air flow in a mixing chamber designed with adequate residence time and droplet trajectory distance to dry the sprayed material.

AVEKA Group

AVEKA Inc AVEKA Manufacturing Cresco Food Technologies AVEKA Nutra Processing AVEKA CCE Technologies

Spray Drying

In all dryers, there is some method for removing the product from the chamber after drying. In tower dryers, the chamber is equipped with a cone bottom. Gravity and air flow from the drying air is used to convey the product from the chamber to a cyclone or baghouse collector. In box type dryers, the product falls to the bottom of the chamber and is swept to a discharge point by a reciprocating unloader.

Examples of materials that we have spray dried:

- Industrial materials: polymers, ceramics, surfactants, inorganic salts, pigments, microencapsulated particles
- Food grade materials: proteins, starch, buffered vinegar, corn stillage, nutraceuticals

Quality Pledge

- Commitment to safety
- Prioritize customer satisfaction
- Consistent, exceptional product
- Strong business partnerships
- IP model that works for everyone
- USDA, FSIS inspected, certified
- Kosher Certified
- Certified Organic
- FSSC 22000
- ISO 9001:2008
- HACCP Program

Let us work with you to develop an innovative plan to take your idea from concept to commerce.









AVEKA Inc

Small to medium scale

- Tower dryers
 - Industrial grade materials
 - Drying capacity: 0.5 to 200 lbs/hr water evaporation
 - Batch sizes:10 lbs to 2,500 lbs
- Laboratory dryers
 - Food or industrial grade materials
 - Drying capacity: 1 to 4 gal/hr water evaporation
 - Particle sizes: 5 to 50 microns

AVEKA Manufacturing

Large scale manufacturing

- Rogers Box Dryer
 - Food grade materials
 - Drying capacity from 3,500 to 4,500 lbs/hr water evaporation
 - Particle sizes: 50 to 100 microns
 - Evaporator capacity 2,500 lbs/hr
- Packaging lines bags, boxes, drums, super sacks

Cresco Food Technologies

Large scale manufacturing

- Rogers Box Dryer
 - Food grade materials
 - Drying capacity: 3,500 to 4,500
 lbs/hr water evaporation
 - Particle sizes: 50 to 100 microns
- Packaging lines bags, boxes, drums, super sacks

AVEKA Nutra Processing

Medium to large scale manufacturing

- Two Tower Dryers
 - Food grade materials
 - Drying capacity: 750 to 4,000
 lbs/hr water evaporation each
 - Particle sizes: 25 to 75 microns
- Evaporator capacity 1,000 lbs/hr
- Packaging lines bags, boxes, drums, super sacks