



LAB SPRAY DRYER

Environment Friendly Engineering Solution Company

48 Year
Of experience



In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | EMS 14001 | OHSAS 18001:2007



SPRAY DRYERS FOR PARTICLE FORMATION & DRYING

Spray drying is the most widely used industrial process involving particle formation and drying. It is highly suited for the continuous production of dry solids in either powder, granulate or agglomerate form from liquid feed stocks as solutions, emulsions and pumpable suspensions. Therefore, spray drying is an ideal process where the end-product must comply to precise quality standards regarding particle size distribution, residual moisture content, bulk density, and particle shape. Spray drying involves the atomization of a liquid feedstock into spray of droplets and contacting the droplets with hot air in a drying chamber. Evaporation of moisture from the droplets and formation of dry particles proceed under controlled temperature and airflow conditions. Both air and material either travel in parallel or counterflow. Drying in spray dryer occurs at very fast rate so that the contact of material to heat is not for longer time hence its does not damage the heat selectivity materials and becomes ideal for drying such materials.

Application

- ◆ Milk, milk derivatives, soyabean products, tea, coffee, instant foods baby foods, weaning Foods, egg products, chocolate etc.
- ◆ Encapsulated fragrances/perfumes like day to day body odours - Brut, Eu-de-cogn, Musk, Lavender, Rose, Sandalwood etc.
- ◆ Quality Ceramics with special electro-mechanical properties for tiles ceramic, Ortho-dentistry etc.
- ◆ Textiles chemicals, encapsulated, fragrant dyes, heat/electrical protective dyes etc.
- ◆ Reactive / disperse dyes for cloth dyeing & Engineering pigments, optical whiteners etc.
- ◆ Palm / Orange/ sandalwood/ ground nut/Cod liver oil etc.
- ◆ Encapsulated Flavours - Natural synthetically Developed etc.
- ◆ API, Formulation, Taste Masking
- ◆ Calciums / Carbonators / Aluminum Chloride, Zeolite etc
- ◆ Misc polymers and resins for allied industries
- ◆ Mono/mixed spices etc.
- ◆ Specialty alloys, precious metals etc.



Technical Data


- ◆ Evaporation Rate: Approx. 1Lit./Hr. (H₂O)
- ◆ Inert Air Temperature: Ambient to 280° C.
- ◆ Heater Capacity: 3 KW.
- ◆ Power Supply: 220-240 VAC 50 Hz
- ◆ Single Phase Max.15A.
- ◆ MOC: S.S with dull pharma finish.
- ◆ Aspirator Blower---> 0.5HP X 2800 RPM 3 phase FLP motor.
- ◆ Fresh Air Filter ---> Pre Filter 5 Microns.Hepa Filter 0.3 Microns.

Optional Features

- ◆ Counter current Spray Nozzle.
- ◆ PC Software. (SPD-P-111)
- ◆ Air Compressor(Oil free).
- ◆ Ultra Sonic Nozzle (60/120 Khz).
- ◆ Inert Loop for Solvent Recovery.(SPD-P-111)
- ◆ Hot Melt System.




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