



Mini Spray Dryer B-290

The world leading R&D solution for Spray Drying

For more than 30 years BUCHI provides an easy to use product with proven performance. Discover its outstanding efficiency and flexibility.



Proven performance

The most established and flexible instrument for lab spray drying



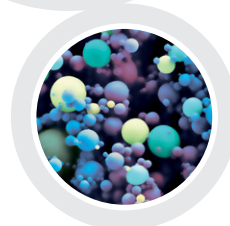
Cost efficient

Achieve reproducible results at minimal costs



Easy to use

Fast setup and easy to operate





Mini Spray Dryer B-290

Key features and advantages





Inert Loop B-295

- For working in inert atmospheres
- Condensation of solvents
- Feedback of inert gases



Dehumidifier B-296

- Constant ambient conditions
- Condensation of water
- For use in combination with Inert Loop B-295 for solvents and water-based mixtures



Three nozzle variations

- Two-fluid nozzle for particle sizes 2 – 25 μm
- Three-fluid nozzle for spraying immiscible fluids.
- Ultrasonic Package for particle sizes 10 – 60 μm



Application-specific glassware

- High-performance cyclonic separator for small particles
- Brown glass for light-sensitive products
- Pre-cleaning glass
- Custom designs also possible



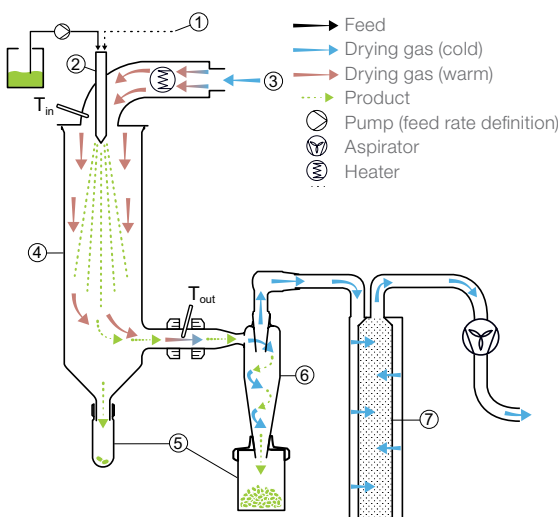
Spray solidification bath

Spray solidification bath for working with molten wax and polymer samples with a melting point of up to 70 °C



Application

Experienced BUCHI technicians in our laboratories all over the world will be happy to help you configure your specific application. There is also a database containing details of several hundred applications



The Mini Spray Dryer B-290 is a user-friendly laboratory-scale spray-dryer. Its sturdy glass apparatus provides a clear view of the process and can easily be cleaned and assembled by a single person. The desired particles or microcapsules ranging in size from 2 – 60 μm are quickly produced using a low-impact and energy-efficient process.

Spray drying comprises the following main stages: preparation of the spraying solution, spraying the solution, separating the particles and removal of the dry powder.

B-290: Your most important benefits



Proven performance

- Large range of applications due to:
- free access to global application database
 - over 700 publications
 - over 400 patents
 - local application support by BUCHI
 - thousands of satisfied customers



Cost efficient

- Reproducible powder production at lab scale
- Small sample amount saves valuable material (> 5 g)
- High yields (up to 70%)
- Fast drying process (up to 1 L / h)
- Shorter times to optimize formulations
- Lowest maintenance costs



Easy to use

- Intuitive handling
- Scale up to pilot or industrial scale possible
- Fast setup and cleaning times
- Visible process due to glass assembly
- Adjustable particle size (2 – 25 microns)

Complete your portfolio



**Nano Spray Dryer
B-90 HP**
Spray Dryer for small
samples and particles



**Encapsulator
B-390 / B-395 Pro**
Gentle bead and capsule
production



**Rotavapor®
R-300**
Convenient and efficient
rotary evaporation



NIR-Online®
Production quality
control in real time

