



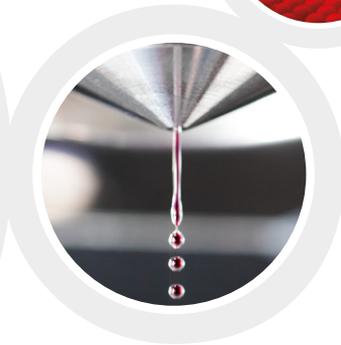
Encapsulator B-390

For innovative microbeads and microcapsules

The versatile system for controlled encapsulation of active ingredients and materials for laboratory-scale research and development work. The simplicity and adaptability of the device allow its use in a variety of areas – pharmaceuticals, materials, cosmetics, the food industry and agriculture.

Versatile

Numerous applications in a variety of scientific fields



Reliable

Efficient, reproducible encapsulation process



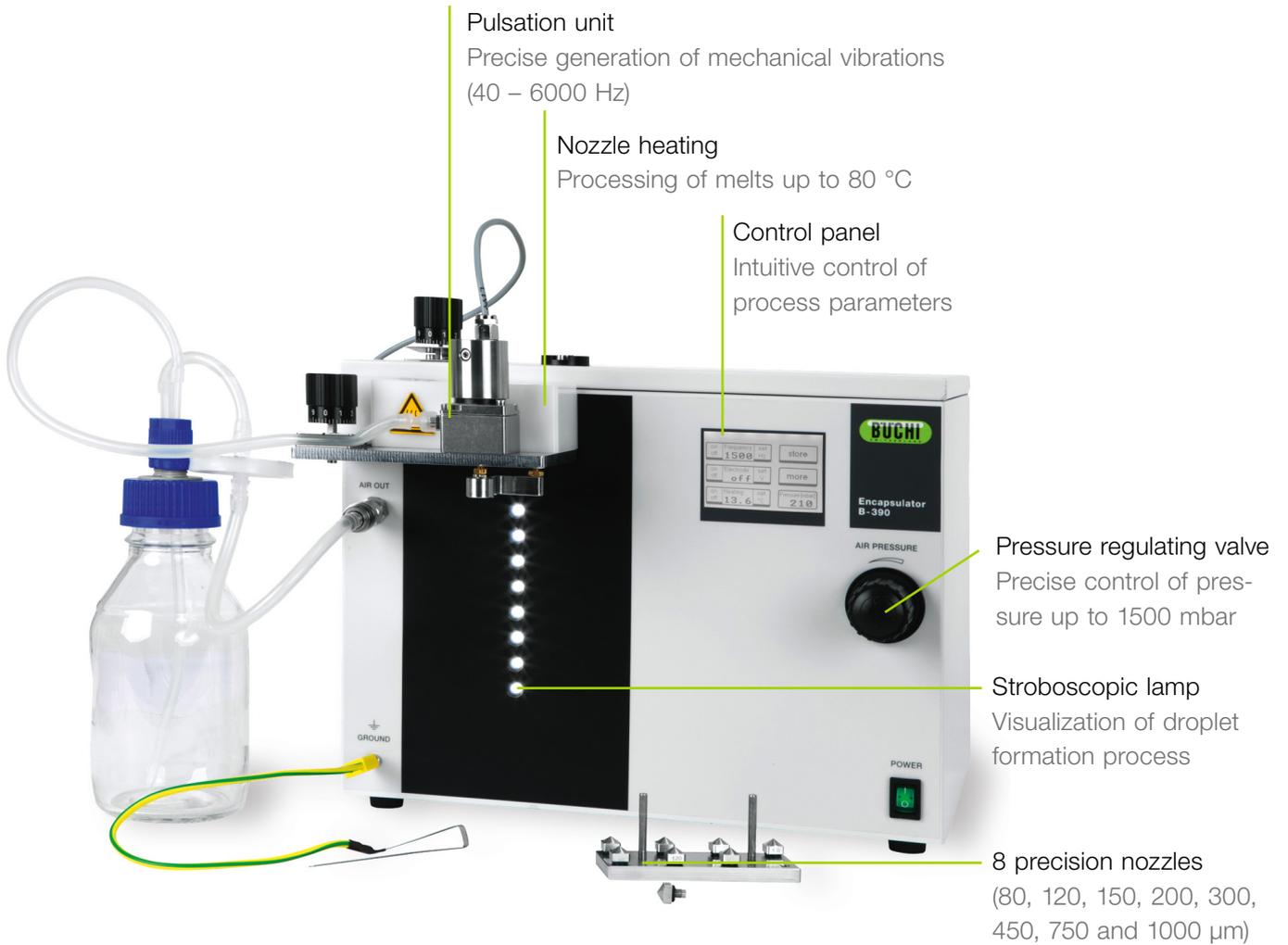
User-friendly

Intuitive to operate and easy to maintain

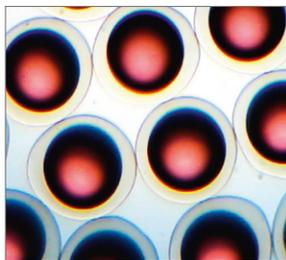


Encapsulator B-390

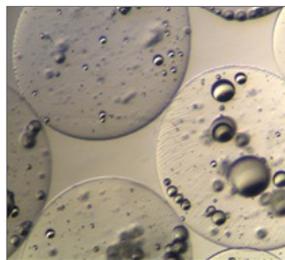
Your partner for the production of microbeads and microcapsules



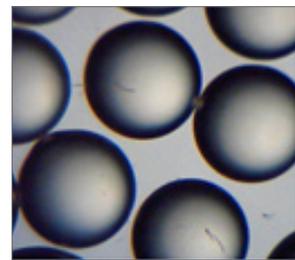
Application examples



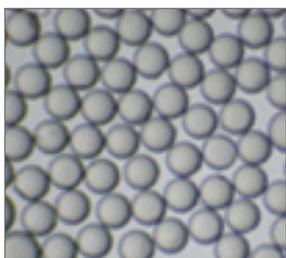
Alginate capsules with oil core and red colouring



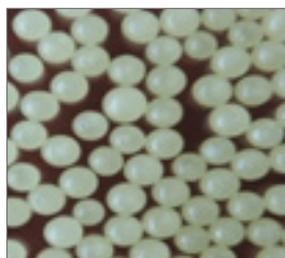
Alginate capsules with multiple oil cores



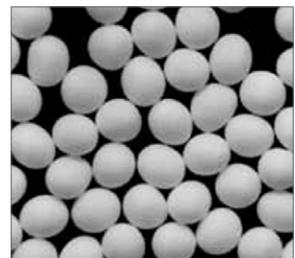
Beads made of gelatine with Vitamin C



PLGA beads with Ibuprofen



Dried gelatine beads



Wax beads

Key features and options



Concentric nozzle system

Concentric nozzle system for creating core-shell capsules (dia. 200 – 2000 μm)



Flow vibration nozzle

Airflow-assisted nozzle system for producing beads (dia. 80 – 1000 μm) from highly viscous polymers



Big capsules nozzle

Nozzle system for production of large core-shell capsules (dia. 2 – 4 mm) by means of drop separation process

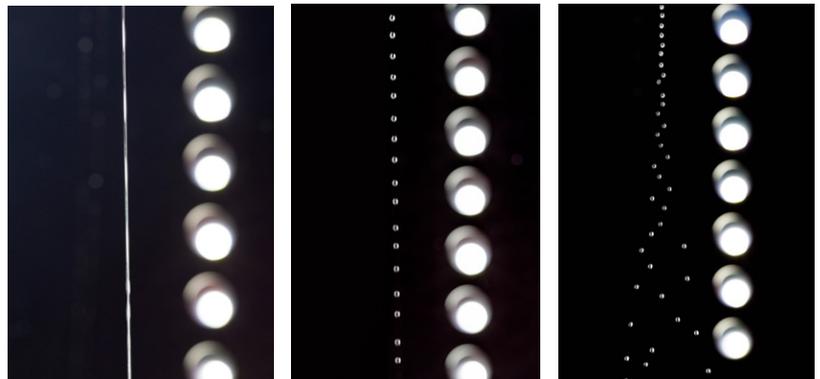


Nozzle heating

The integrated nozzle heater expands the breadth of applications. It enables the processing of melts such as wax or gelatine

Method of operation

A laminar-flow fluid jet is subjected to a superimposed mechanical vibration, as a result of which it disintegrates into regular-sized droplets. They are then hardened by means of chemical or physical processes. Easy to achieve with the Encapsulator B-390 from BUCHI!



Generation of a stable fluid jet

Generation of a stable, vertical droplet chain

Electrostatic dispersal of the droplet chain

Encapsulator B-390: Your most important benefits



Versatile

- Production of monodisperse microbeads and microcapsules
- Choice of particle diameters between 80 µm and 4000 µm
- Suitable for the encapsulation of microorganisms, organic and inorganic substances



Reliable

- Efficient, reproducible encapsulation process
- Exceptionally tight particle size distribution
- High encapsulation efficiency and high yields



User-friendly

- Intuitive to operate and easy to maintain
- Quick and easy process optimization thanks to visualization of droplet formation
- The BUCHI application database and BUCHI application support help you get the most out of working with the Encapsulator B-390

Complete your portfolio



**Mini Spray Dryer
B-290**

World leading laboratory Spray Dryer



**Nano Spray Dryer
B-90**

Spray Dryer for small samples and particles



**Encapsulator
B-395 Pro**

Gentle, sterile bead and capsule production



**Rotavapor®
R-300**

Convenient and efficient rotary evaporation

