



Encapsulator B-395 Pro

**For sterile microbeads  
and microcapsules**



# Encapsulator B-395

Your partner for the production of microbeads and microcapsules

A quality product for the sterile encapsulation of cells, biological and active ingredients for laboratory-scale research and development work. The highly advanced technology enables particle production for numerous biotechnology and medical processes and other fields that require sterile conditions.

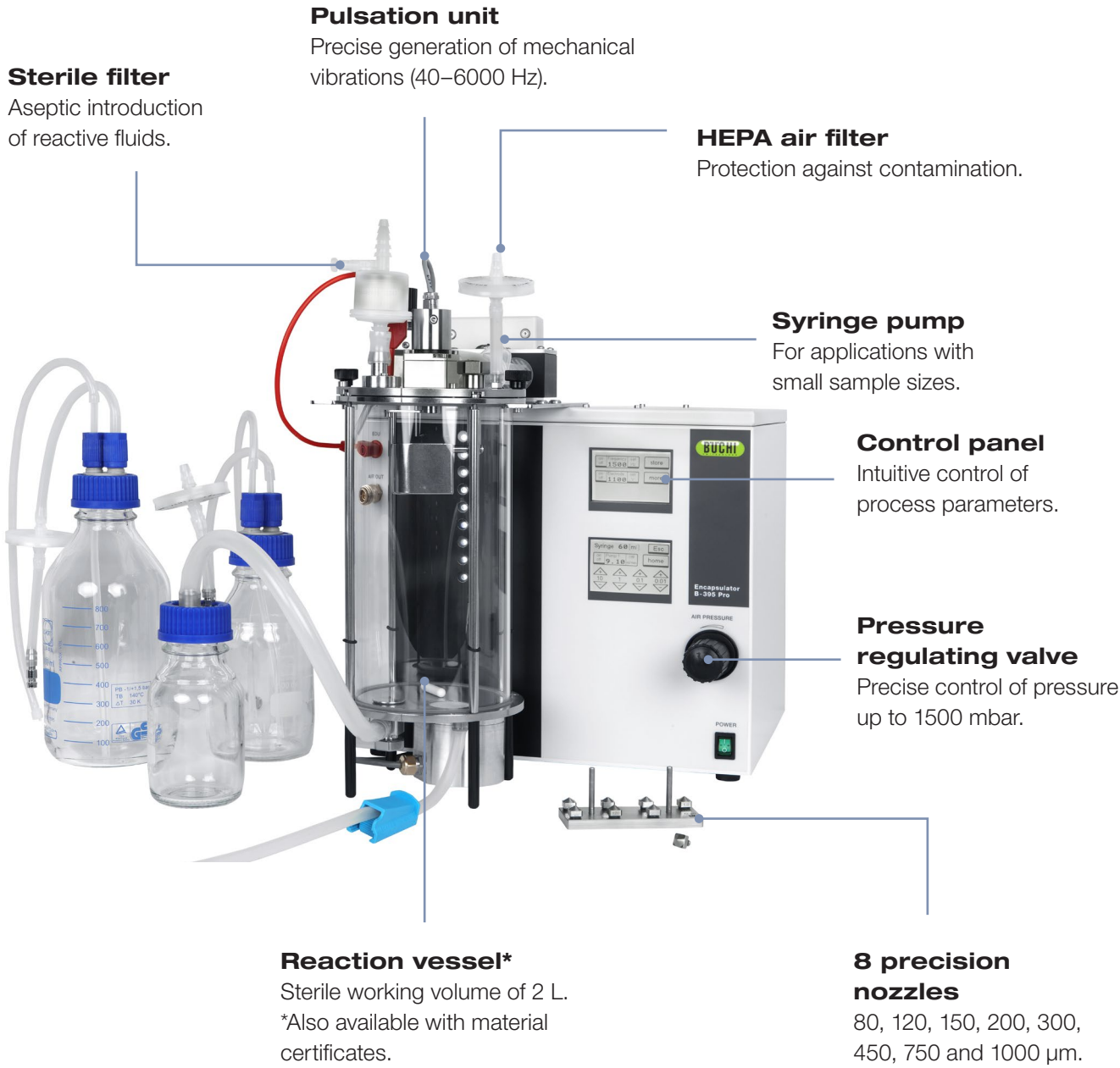


**Aseptic**  
Sterile encapsulation of cells, microorganisms and active ingredients.

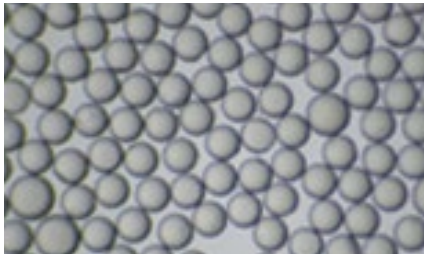
**Reliable**  
Efficient, reproducible encapsulation process.



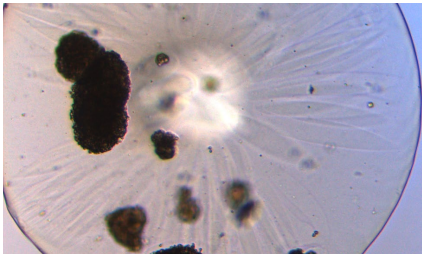
**User-friendly**  
Intuitive to operate and easy to maintain.



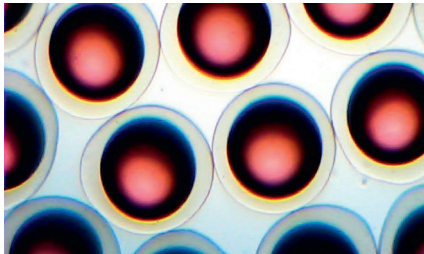
## Application examples



PLGA beads with Ibuprofen

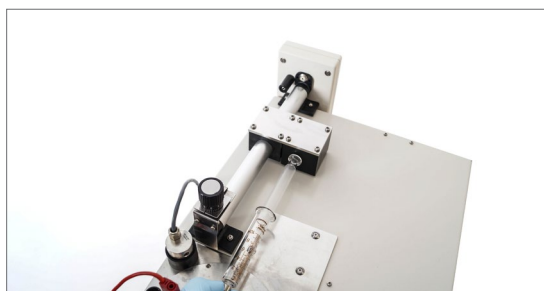


Encapsulated islet cells



Alginate capsules with oil core and red colouring

## B-395 Pro: Your most important benefits



### Syringe pump

Easily calibrated syringe pump for low-loss feed of small sample quantities using sterile syringes of various volumes.



### Material certificates

The reaction vessel for the Encapsulator B-395 Pro is available with material certificates for GMP documentation.



### Concentric nozzle system

Concentric nozzle system for creating core-shell capsules (dia. 200–2000  $\mu\text{m}$ ).

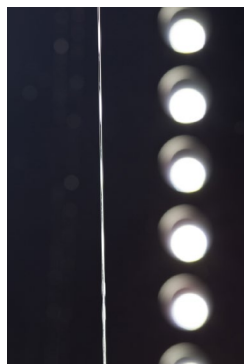


### Air dripping nozzle

Nozzle system with airstream dispersal and minimized dead space, tailor-made for low-impact encapsulation of cell agglomerates.

## Method of operation

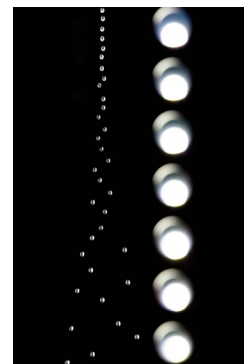
A laminar-flow fluid jet is subjected to a superimposed mechanical vibration, as a result of which it disintegrates into regular-sized droplets. They are then hardened by means of chemical or physical processes. Easy to achieve with the Encapsulator B-395 from BUCHI!



Generation of a stable fluid jet.



Generation of a stable, vertical droplet chain.



Electrostatic dispersal of the droplet chain.

