

YOCELL

YC-BASIC Series Homogenizer

Laboratory Type High Pressure Homogenizer

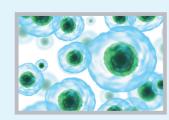


YC-BASIC series high pressure homogenizer is for laboratory research — meets various experimental needs.

- Comply with GMP and FDA hygiene standards.
- High crushing rate, one-time crushing rate can exceed 95%.
- High hygienic level, and can meet the requirements of food and drug production.



Applications:



Cell disruption

- E. coli
- Yeast
- Algae



Cosmetics

- Liposome emulsions
- Skin care cream
- Lipstick



Food / beverage

- Dairy products
- Fat substitutes
- Flavours



Pharmaceutical

- Injection
- Nutrients
- Ointment



Chemical / Material

- Graphene
- Nanocellulose
- Lithium battery



Technical Features:

• Modular structure, easy to operate and maintain.

Automated operation

—Automatic sample injection, continuous operation, no venting required.

Safety control

—Automatically cut off the controller circuit.

Equipment material

- Adopt 316L stainless steel with high hygienic level, high-temperature resistant, wear-resistant and anti-corrosion.
- —The core components are made of special ceramics, which are durable and have a long service life.

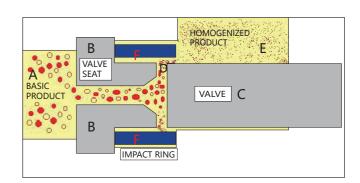
• Temperature controllable

- —The inlet and outlet of the cooling joint are connected to the constant temperature bath, which effectively controls the temperature rise of the homogeneous material.
- Triple overvoltage safety protection system:
 - —Equipped with BOS inverter for overload start protection.
- —Equipment adopts Italian GEFRAN, when pressure exceeds 10% of sensor range value, the sensor will sends the signal of the unit, and then the machine stops for self-protection.
- —Equipped with safety valve for pressure relief system.



Working principle:

Under the reciprocating motion of the plunger, the material is transported to a valve group with adjustable size, and is subjected to extremely strong compression. When passing through the current limiting slit, the material hits



the valve at a very fast speed, resulting in cavitation effect, impact effect and shear effect, so that the aggregated material is evenly dispersed.

Technical parameters

Model	YC-NANO10	YC-BASIC15	YC-BASIC30
Material	316L stainless steel The core components are made of special ceramics		
Flow rate	10L/h	8~15L/h	20~30L/h
Design pressure	2000bar	1500bar	1000bar
Pressure gauge	0~2000bar digital display, accuracy 1bar		
Minimum throughput	15mL	25mL	50mL
Material consumption	0mL(no residue)		
Feed pellet size	<500μm		
Product process viscosity	< 2000cPs		
Power	1.5kW, 220V/50Hz	1.5kW, 220V/50Hz	2.2kW, 380V/50Hz