

# YC-MH Series Homogenizer

Laboratory Type High Pressure Microfluidization Homogenizer

The user-friendly and laboratory-scale high pressure microfluidization homogenizer is designed for laboratory R&D and small-scale production under ultra-high pressure. It utilizes microfluidization Y-Type or Z-Type Diamond Interaction Chamber, and it can be widely used in the pharmaceutical, biochemical, cosmetics, food and dairy industries. YC-MH series homogenizer can also support experiments for cell disruption, nano emulsions, nano dispersions, liposome, etc.



**Unique Benefits:**

- Powerful: Particle size below 100nm with PDI 0.1
- Small: Integrated design delivers the light weight and small dimensions
- Smart: Program parameter setting; Auto stop by time & volume
- Silent: Noiseless performance
- Safety: Pharmaceutical grade material, FDA & GMP approvable

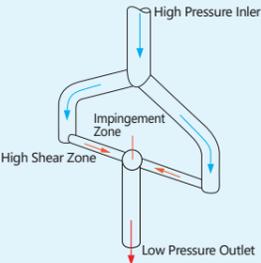
## Technical parameters

Model	YC-MH20k	YC-MH30k	YC-MH45k
Max. pressure	20,000psi	30,000psi	45,000psi
Flow rate	100mL/min	120mL/min	120mL/min
Min. sample	5mL	5mL	5mL
Feed viscosity	< 2000cPs		
Min. residue	1mL	1mL	1mL
Dimensions (WxDxH)	70x36x30cm	70x36x30cm	70x36x30cm
Weight	35kg	35kg	35kg
Max. feed temperature	90°C		
Power	1.5kW, 220V/50Hz		

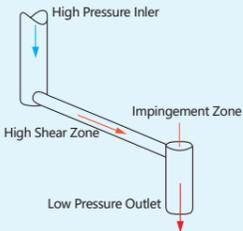
## Core components



**Diamond interaction chambers with Y-type or Z-type**



**Y-type chamber internal jet path**



**Z-type chamber internal jet path**



**PLC control screen**



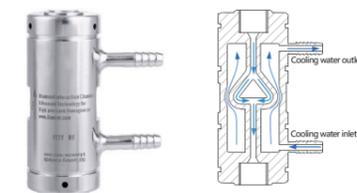
**Ceramic plunger**

## Optional configuration

Items	Standard	Optional
Control system	High pressure programming control systems®: touch screen, speed control, auto stop control by time, pressure or temperature, settable volume control as low as 1mL	
Pressure gauge	Digital display on the touch screen	
Parts	Single diamond interaction chamber	Multi-model diamond interaction chamber with cooling jacket
Feed port	300ml stainless steel hopper	Multi-model stainless steel hopper
Outlet port	Luer flexible hose	Multi-model Luer syringe
Material cooling	150 material heat exchanger	Multi-model material heat exchanger
Cooling system	None	Cryogenic cooling circulating pump
High pressure cylinder	316L stainless steel	Titanium alloy



**Titanium high pressure cylinder upgrade for optional**



**Diamond interaction chambers with cooling for optional**