

Product Catalogue  
Ultrasonic Processor



Proficient in experimentation  
dedicated to quality



# Ultrasonic Processors

Liquid processing capacity  
0.1ml ~ 3000ml

Probe  
Titanium TC4

Ultrasonic processor, also known as ultrasonic cell pulverizer, extractor, disperser and emulsifier. It is one of the most common equipment used in laboratory sample pre-treatment.



Portable type

Integrated type

Split type

## APPLICATIONS



**Wastewater treatment**  
COD degradation



**Environmental Science**  
Extraction of organic matter from soil



**Pharmaceuticals**  
Herbal and plant extracts



**Life Science**  
Cell wall-breaking extraction & crushing



**Composite Materials**  
Nanomaterial dispersion



**Homogeneous Mixing**  
Accelerated dissolution, chemical reaction synthesis, oil-water emulsification

**Oil-water emulsification**



POWER  
300W~2000W

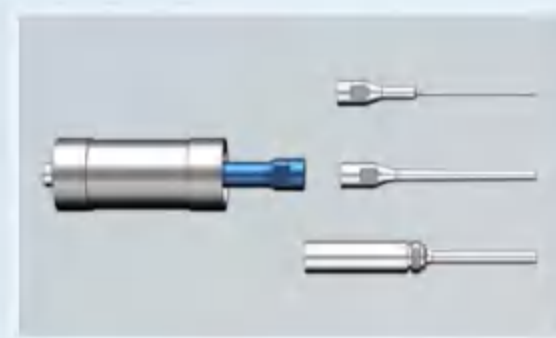
99H continuous operation

## Split ultrasonic liquid processor

- 2D Exponential Ultrasonic Probes with higher Output Efficiency
- 3 Operation Modes: Continuous, Pulse and Timer (Timer 1min ~ 99h)
- 7" Touch Screen for easy operation & observation
- 10 User Groups for programmable procedures
- 1%~100% Variable power output
- 19-25KHz Auto-tracking and Auto Amplitude Compensation with real time display
- 0°C~300°C Sample temperature monitoring and protection
- Operating power AC 85V - 260V, fit for every Laboratory in the world



Lifting platform



Converter, Amplifier, Probe



7 inch touch screen (800 x 480)



Power connector  
Temperature sensor connector  
Converter connector

### SPECIFICATIONS

Model No.	Frequencies	Power	Standard Probe	Capacity	Optional Probes	Applications
DL-300F	19~25KHz	300W	Φ3mm	0.1 ~ 200ml	Φ3 (0.1~50ml), Φ6 (50~200ml)	EP tube Microsample
DL-550F	19~25KHz	550W	Φ6mm	0.1 ~ 600ml	Φ3 (0.1~50mL) Φ6 (50~300mL) Φ8 (200~500mL)	Small processing capacity
DL-650F	19~25KHz	650W	Φ8mm	0.1 ~ 800ml	Φ3 (0.1~50mL) Φ6 (50~400mL) Φ8 (200~800mL)	Routine laboratory
DL-950F	19~25KHz	950W	Φ13mm	0.1 ~ 1200ml	Φ6 (50~300mL) Φ8 (300~600mL) Φ13 (500~1200mL)	Routine laboratory
DL-1200F	19~25KHz	1200W	Φ16mm	0.1 ~ 1500ml	Φ13 (50~1000mL) Φ16 (500~1500mL)	Routine laboratory
DL-2000F	19~25KHz	2000W	Φ20mm	0.1 ~ 3000ml	Φ13 (50~1000mL) Φ16 (500~1500mL) Φ20 (500~3000mL)	Large processing capacity

## Integrated ultrasonic liquid processor

99H continuous operation

POWER  
300W~2000W

- 3D Exponential Ultrasonic Probes with higher Output Efficiency and longer service life
- 3 Operation Modes: Continuous, Pulse and Timer (Timer 1min ~ 99h)
- 7" Touch Screen for easy operation & observation
- 10 User Groups for programmable procedures
- 1%~100% Variable power output
- 19-26KHz Auto-tracking and Auto Amplitude Compensation with real time display
- 0°C~300°C Sample temperature monitoring and auto protection
- Operating power AC 85V - 260V, fit for every Laboratory in the world



Lifting platform



Converter, Amplifier, Probe



7 inch touch screen (800 x 480)



Power switch  
Power connector  
Converter connector

### SPECIFICATIONS

Model No.	Frequencies	Power	Standard Probe	Capacity	Optional Probes	Applications
DL-300Y	19~26KHz	300W	Φ3mm	0.1 ~ 300ml	Φ3 (0.1~50ml) Φ6 (50~300ml) Φ10 (200~300ml)	EP tube Microsample
DL-500Y	19~26KHz	500W	Φ6mm	0.1 ~ 600ml	Φ3 (0.1~50mL) Φ6 (50~500mL) Φ8 (300~500mL)	Small processing capacity
DL-1000F	19~26KHz	1000W	Φ10mm	0.1 ~ 1200ml	Φ3 (0.1~50mL) Φ6 (50~400mL) Φ8 (500~1200mL)	Routine laboratory
DL-1500F	19~26KHz	1500W	Φ16mm	0.1 ~ 1800ml	Φ10 (50~500mL) Φ16 (50~1200mL) Φ18 (1000~1800mL)	Routine laboratory
DL-1800F	19~26KHz	1800W	Φ18mm	0.1 ~ 2200ml	Φ10 (50~500mL) Φ16 (50~1200mL) Φ18 (1000~2200mL)	Large processing capacity
DL-2000F	19~26KHz	2000W	Φ20mm	0.1 ~ 3000ml	Φ10 (50~500mL) Φ16 (50~1200mL) Φ18 (1000~2200mL) Φ20 (1000~3000mL)	Large processing capacity

## Portable ultrasonic liquid processor

AC/DC POWER SUPPLY

POWER 150W~300W

- Compact design and easy to carry
- High efficiency and energy saving
- Stable TC4 probe with long service life
- Hand-held or can be bracket-mounted
- Auto-tracking and Auto Amplitude Compensation
- Supporting DC 12V~24V and AC 86V~260V
- Vehicle cable included for outdoor use



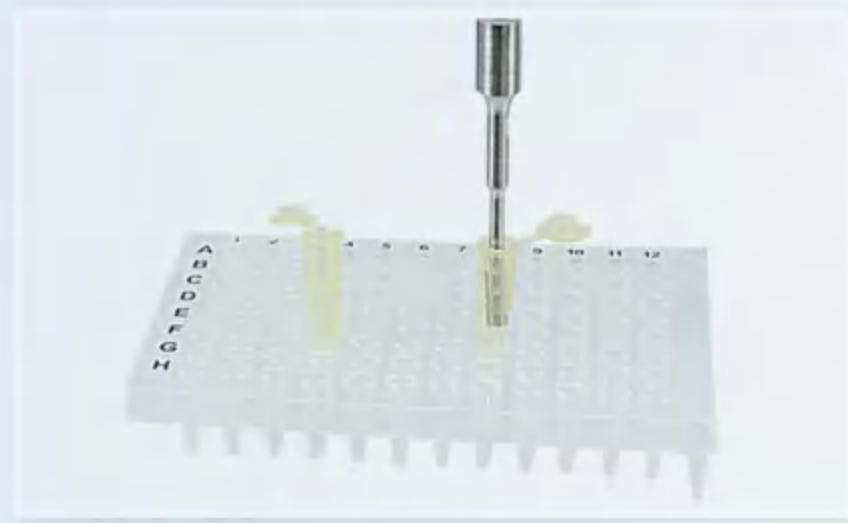
Power cord and the processor



Hand-held type



Sturdy Packing Case



Applied to EP tubes



Working with Bracket Stand

## SPECIFICATIONS

Model No.	Frequencies	Power	Standard Probe	Capacity	Optional Probes	Applications
DL-150S	30KHz	150W	Φ3mm	0.1~100ml	Φ2 (0.1~0.5ml) Φ3 (0.5~30ml) Φ6 (30~100ml)	EP tube Microfuge tube
DL-200S	30KHz	200W	Φ6mm	0.1~200ml	Φ3 (0.1~30ml) Φ6 (30~200ml) Φ8 (100ml~200ml)	EP tube Microfuge tube
DL-300S	30KHz	300W	Φ8mm	0.1~300ml	Φ3 (0.1~30ml) Φ6 (30~200ml) Φ8 (50ml~300ml)	EP tube Microfuge tube

## ACCESSORIES

### Split type



Converter and Amplifier



Optional probes

### Integrated type



Converter and Amplifier



Optional probes

### Portable type



Integrated body

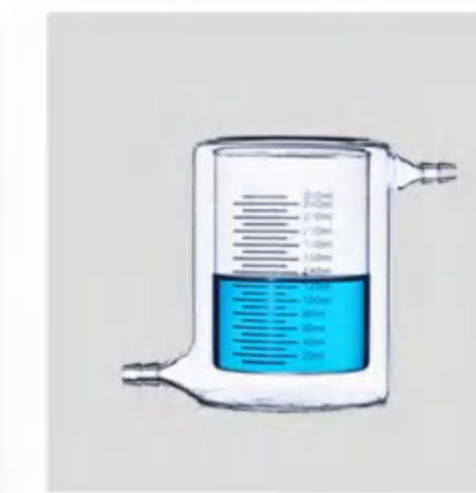


Optional probes



Spanners

Specialised tool for the quick replacement of luffing bars.



Jacketed Beakers

In conjunction with a cryostat, the liquid is cooled down to a lower temperature.



Rosette cooling cells

The sample is forced to circulate under the probe and through the cooling arms.



Bracket stand

Device for holding an external ultrasonic probe.



Test tube racks

Placed in the sound enclosure for the fixation of samples in the EP tube.



Temperature sensor



Converter cord



Power cord



Anti-slip pad



Lifting platform