

## Ultrasonic Cell Disruptor

### Application:

Widely used in the field such as biology, chemistry, microbiology, pharmacology, physics, zoology, agronomy, medical science, pharmacy for teaching, scientific research and production.

### Features:

- \* LCD touch screen display.
- \* Storage capacity: 20 groups of program data.
- \* Temp. monitor: over-temperature protection.
- \* Other functions: automatic tracking the frequency, fault alarm.



### Technical Parameters:

Model	UCD -150	UCD -250	UCD -500	UCD -650	UCD -950	UCD -1200	UCD -1500	UCD -1800	UCD -2000
Frequency(KHz)	20~25	20~25	20~25	20~25	20~25	19.5~20.5	19.5~20.5	19.5~20.5	19.5~20.5
Crushing Capacity(ml)	0.1~150	0.1~300	0.1~400	0.1~500	0.1~700	1~1000	1~1500	1~1200	50~2000
Standard Amplitude-change Pole Ø (mm)	6					20	22	22	25
Optional Amplitude-change Pole Ø(mm)	2, 3, 6, 8, 10	2, 3, 6, 8, 10	2, 3, 6, 8, 10, 12	2, 3, 6, 8, 10, 12	2, 3, 6, 8, 10, 12, 15	3, 6, 10, 15, 22, 25	10, 15, 20, 22, 25	10, 15, 20, 22, 25	10, 15, 20, 25
Consumption (W)	1.5~150	2.5~250	5~500	6.5~650	10~1000	12~1200	15~1500	18~1800	0~2000
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)								
Package Size (W*D*H)	350*350*550mm(acoustic chamber)								
Gross Weight	26kg					29kg			

### Technical Parameter for Amplitude Pole:

Size	Crushing Capacity(ml)	Recommended power ratio	Frequency (KHz)	UCD -150	UCD -250	UCD -500	UCD -650	UCD -950	UCD -1000	UCD -1200	UCD -1500	UCD -1800	UCD -2000
φ2mm	0.1-5ml	1~35%	20~25	√	√	√	√	√	√	×	×	×	×
φ3mm	3-10ml	1~45%	20~25	√	√	√	√	√	√	√	√	√	×
φ5mm	5-100ml	1~60%	20~25	×	×	×	×	×	×	×	×	×	×
φ8mm	10-100ml	1~70%	20~25	√	√	√	√	√	√	√	√	√	√
φ8mm	20-200ml	1~85%	20~25	√	√	√	√	√	√	√	√	√	√
φ10mm	30-300ml	1~90%	20~25	√	√	√	√	√	√	√	×	×	×
φ10mm	30-300ml	1~60%	19.5~20.5	×	×	×	×	×	×	√	√	√	√
φ12mm	50-600ml	10~90%	20~25	×	×	√	√	√	√	×	×	×	×
φ15mm	200-750ml	10~95%	20~25	×	×	×	×	√	√	×	×	×	×
φ15mm	50-500ml	5~80%	19.5~20.5	×	×	×	×	×	×	√	√	√	√
φ20mm	100-1000ml	10~90%	19.5~20.5	×	×	×	×	×	×	√	√	√	√
φ22mm	200-1200ml	20~95%	19.5~20.5	×	×	×	×	×	×	√	√	√	√
φ25mm	300-1500ml	30~95%	19.5~20.5	×	×	×	×	×	×	×	√	√	√

## Continuous Flow Ultrasonic Cell Disruptor

### Application:

It is suitable for the extraction of Chinese herbal medicine, cells, bacteria and emulsifying chemical nanometer material, suitable for small batch production or to provide accurate technical parameters for the future industrial production.

### Features:

- \* LCD Display
- \* Automatic tracking the frequency
- \* Storage capacity: 20 groups of program data.
- \* It can test and control temperature of the sample
- \* Function of automatic feeding and computer control can be optional equipped



### Technical Parameters:

Model	UCD-4000W-II
Frequency	19.5~20.5KHz
Standard Amplitude-change Pole Ø	40mm
Crushing Capacity/Once	500~10000ml
Crushing Capacity/Continuously	100L/Day
Max. Consumption	1000~4000W, Adjustable
Time Set	Optional: Continuous/Pulse
Max. Working Time	99h59min59sec
Safety System	Over temperature; Time; Overload; No load
Standard Accessories	Main machine, energy converter, standard amplitude, sound proof box(or supporting frame)
Optional Accessories	Stainless steel reactor, peristaltic pump, low temperature water tank
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)
Package Size(W*D*H)	675*305*450mm(main body); 430*415*730mm(soundproof box)
Gross Weight	32kg

## Portable Ultrasonic Cell Disruptor

### Features:

- \* LCD Display
- \* Temperature alarm setting range: 0~100°C
- \* Ultrasonic time setting for on and off: 0.1-9.9s
- \* Audible alarm for: Over temperature, over power, over time



### Technical Parameters:

Model	UCD-P01
Frequency(KHz)	20~30, frequency automatic tracking
Crushing Capacity(ml)	0.1~150ml (need to choose the corresponding horn)
Standard Amplitude Pole Ø(mm)	3 or 5
Optional Amplitude Pole φ (mm)	2, 3, 5, 6
Other Optional Accessories	Foot switch, sound proof box, bracket
Consumption(W)	2.5~250W, adjustable
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)
Package Size(W*D*H)	470*305*430mm(main body); 350*350*550mm(soundproof box)
Gross Weight	16(main body); 10(soundproof box)