

AE-E Series Ultrasonic Cell Disruptors

Application Fields:

Bioscience: split the cells of bacterias, viruses, spores and other cell structures, crush, leach and extract DNA of animal's cells, extract the proteins and trim DNA / RNA and chromatin immunoprecipitation. Materials Chemistry:

nanometer materials such as dispersion of carbon nanotubes and graphite seleniums and other materials and disintegrate, emulsify, homogenize and crush the homogeneous soil, rock samples, nonferrous metals and rare earths and so on.

Further, it can be used for dispersing and extracting Chinese herbal medicines, the dispersion, emulsification, homogenization and process of accelerated reaction of other samples, which is applied to sample pretreatment of chemical industry, medical treatment, archaeology, and geology and marine.



Performance Characteristics:

*With microcomputer control, it can be used in DSP plus ARM, which is more stable in performance and more accurate indata;

*It has functions like frequency selection, temperature measurement, frequency automatic tracking, impedance self adaptation and protection;

*It has a user password protection;

*The illumination, sterilization and automatic lifting are offered to the every sound proof box, which can directly operate on the touch screen;

Technical Parameters:

Model	AE-450E	AE-650E	AE-950E	AE-1200E	AE-1500E
Output power	450(1%-99%) is continuously adjustable	650 (1%-99%) is continuously adjustable	950 (1%-99%) is continuously adjustable	1200(1%-99%) is continuously adjustable	1500 (1%-99%) is continuously adjustable
Work frequency	20-25KHz	20-25KHz	20-25KHz	20-25KHz	20-25KHz
Handling capacity	0.1-500ml	0.1-600ml	0.1-800 ml	1-1000 ml	1-1200 ml
Fixed time	00: 00: 01-99: 59: 59				
Operating mode	Interval/continuation				
Pulse work	0.1-99.9s adjusted				
Gap work	0.1-99.9s adjusted				
Temperature control	0-100℃	0-100℃	0-100℃	0-100℃	0-100℃
Warning	Temperature and time	Temperature and time	Temperature and time	Temperature and time	Temperature and time
Input mode	Touch	Touch	Touch	Touch	Touch
Display mode	7-cun TFT	7-cun TFT	7-cun TFT	7-cun TFT	7-cun TFT
Display content	Temperature, power, amplitude / power and the pulse mode and time				
Protector	Self-diagnostic function, the program automatic error correction, overload protection and over-temperature protection				
Data storage	20 groups	20 groups	20 groups	20 groups	20 groups
Code	Yes	Yes	Yes	Yes	Yes
Other features	Computer control (485) curve display, record and print.				
Sound proof box	Lighting, sterilization and Remote control automatic lifting				
Random amplitude transformer	Φ5	Φ6	Φ6	Φ20	Φ25
Optional amplitude transformer	Φ2,3,8,10,15	Φ2,3,8,10,15	Φ2,3,8,10,15	Φ15,25	Φ20,28
Attached	Comes with a suite of software				