

SONICS & MATERIALS

**High Intensity Ultrasonic Processor
130W model (VCX-130)
Operation manual**

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Principle of ultrasonic disruption

20kHz 40kHz(20,000 40,000 cycles per second) 50/60Hz voltage high frequency electrical energy . High frequency electrical energy converter piezoelectric transducer mechanical vibration . Converter vibration probe , liquid pressure wave . microscopic bubble(cavities) negative pressure excursion() positive excursion .() Cavitation() probe tip shearing action() 가 agitation .

Caution

- power supply converter가 power supply 가 converter . Splash shield cup horn .
- 10 microtip extender .
- Microtip Amplitude control microtip limit 40% setting , microtip extender가 .
- Probe .
- 가 replaceable tip probe .
- Replaceable tip, extender microtip threaded probe 가 .

Electrical Requirement

가 , .(220V .)

- 1.
- 2.
- 3.

4. Converter Probe

5. Converter (Power supply)

Using the Ultrasonic processor

Ultrasonic processor amplitude . Probe
(resistance) 가 power가 ,
power supply가 , power 가 amplitude
probe tip excursion .

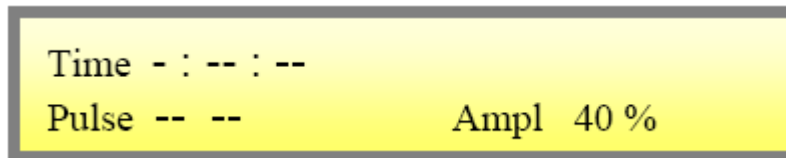
AMPLITUDE control probe tip level , ultrasonic vibration 가
, probe probe가
가 , probe diameter , probe power

Operation of the ultrasonic processor

1. ON 가 , LCD screen Ultrasonic processor
power rating, , control parameter .

AMPL: amplitude Ultrasonic processor
control parameter- Time Pulse 가 .

amplitude . , Amplitude control
40% Amplitude control LCD screen 'Ampl 40%'
40%



: Tapered microtip amplitude 40%

2. 가 . Ultrasonics START
footswitch . STOP
footswitch . Time Pulse ,

START , STOP 가

START

STOP

footswitch가
footswitch

START footswitch
footswitch

START 가

footswitch 가

STOP

3. Probe 5cm

microtip , 1cm

amplitude

amplitude가

Timer: Pulsed mode
(elapsed time)

control

1 , ON OFF cycle 1

2

TIMER

LCD

Time Setting
Hrs: - Min: -- Sec: --

Time Setting
Hrs: 5 Min: 30 Sec: 25

ENTER/REVIEW

LCD

Time 5:30:25
Pulse -- -- Ampl 40 %

Pulser:

pulse

가 pulsing

probe

ON OFF pulse

0.1

9.9

가

OFF

PULSER 가 가 OFF 2
 ultrasonic probe CAUTION-PROBE ON
 STANDBY- 가 Pulser
 PULSER

Pulse on -- sec
 Pulse off -- sec

cycle ON ENTER/REVIEW

) Pulse on 02 sec
 Pulse off -- sec

cycle OFF ENTER/REVIEW

) Pulse on 02 sec
 Pulse off 01 sec

ENTER/REVIEW

Time 5:30:25
 Pulse 02 01 Ampl 40 %

On Cycle Off Cycle

REVIEW: REVIEW parameter 가
 ENTER/REVIEW

- a. amplitude
 : e.g. Amplitude control 40%

- b. Processing time() elapsed time()
: e.g. Set 5:30:25, Time 0:57:03
- c. Pulsing cycle pulsing cycle
: e.g. Pulse cycle pulse cycle
- d. Power(watt) probe (Joules)

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