## ROSETT COOLING CELL

The Rosett cooling cell enables uniform treatment at low temperatures. The cell is placed in a cooling bath. The ultrasonic energy forces the sample to circulate repeatedly under the probe and throughout the cooling arms.
30 ml Rosett cooling cell.
Part No. 830-00003

## GLASS COOLING CELLS*

10 ml cooling cell with water jacket.
Part No. 830-00009

100 ml cooling cell with water jacket.
Part No. 830-00010

*Inlet and outlet require ⅜" (9.5 mm) I.D. tubing.

## MICRO CUP HORNS*

The micro cup horns can process small samples in isolation without probe intrusion, precluding any possibilities of cross-contamination or aerosolization. Especially useful when working with infectious materials. Typical applications include: cell disruption, protein extraction, liposome preparation, protein shearing and releasing cellular components including DNA and RNA.

The water-filled micro cup horn screws into the inverted converter in place of a probe. The test tube containing the sample is placed inside the cup horn. The vibrations produced in the cup induce cavitation inside the tube. Inlet and outlet ports enable cooling water to be circulated within the cup, inhibiting heat build-up during extended operation. Ease of disassembly facilitates cleaning, and in contrast to polycarbonate cup horns with removable plastic fittings, is 100% leakproof. Supplied with splash shield.

Note: Because the intensity of cavitation within the test tube is substantially less than with direct probe contact, to obtain comparable results when using the cup horn, multiply the processing time by 4.
Probe: Titanium alloy Ti-6Al-4V. Connecting stud: ¼ - 20. Diameter $^{25}/_{32}$" (20 mm)
Glass vessel Inside diameter 1½" (38 mm).
Part No. 630-0608


*Water inlet connects to ⅜" (9.5 mm) I.D. tubing. Water outlet connects to ½" (13 mm) I.D. tubing.

## FOOTSWITCH

For hands-free operation
10' (3 m) cable with plug.
Part No. 830-00004

## HANDHELD FREQUENCY METER

Check the frequency of energized probes, converters and boosters.
Frequency range: 10.00 kHz - 80.00 kHz
Part No. 833-00012


## CONVERTER CLAMP

Securely supports 1¼" (32 mm) diameter converter on support stand with ½" (13 mm) diameter support rod. Chemical-resistant reinforced plastic.
Part No. 830-00118

## SUPPORT STAND

Black enameled 5½" x 9" (140 x 229 mm) cast-iron base and ½" (13 mm) diameter, 24" (610 mm) long zinc-plated rod.
Part No. 830-00109

## SOUND ABATING ENCLOSURE

Even though ultrasonic vibrations are above the human audible range, ultrasonic processing produces a high pitched noise in the form of harmonics, which emanate from the vessel walls and the liquid surface. The sound abating enclosure permits extended processing without discomfort by reducing the sound by 35 db. The probe/converter assembly is supported by the converter clamp, and the converter cable is fed through the ¾" (19 mm) opening at the top. Side access ports accommodate the tubing delivering the coolant and the sample to the processing vessel while the door is closed. The unit is faced on the exterior with white laminate, and lined on the interior with white waterproof polyethylene noise abating material. The transparent access door permits observation during treatment and protects the operator against accidental splashing. Support rod and converter clamp are included.
Outside dimensions: (H x W x D) 20" x 12" x 12" (510 x 300 x 300 mm).
Inside dimensions: (H x W x D) 17" x 9" x 9½" (432 x 229 x 240 mm).
Part No. 630-0451