

Indirect Horn Options

Cup Horns

Cup horns offer indirect sonication and function as high intensity ultrasonic water baths. Multiple samples can be processed in sealed tubes or vials eliminating aerosols and cross contamination. This method is ideal for sterile or pathogenic sample processing.

Applications include ChIP Assay, cell disruption, liposome and protein preparation. Cup Horns offer less intensity than direct probe sonication but are capable of processing most standard sonicator applications.

The horn is held within an acrylic cup filled with water. Samples are placed within the cup, above the horn. Cavitation is produced in the water, processing the samples within the tubes or vials. Coolant ports are on each side of the cup for circulation of cold water to keep samples from overheating. A microtube holder is included with each Cup Horn.

#431A and #431B are very similar in size. The B model allows for more water to circulate around temperature sensitive samples. #431C enables the user to sonicate twenty 1.5ml tubes or several large vessels at one time.



431A



431B



431C

Part #	431A	431B	431C
Inner Diameter of Cup	2.5" (6.4cm)	3" (7.6cm)	5.5" (14.0cm)
Diameter of Horn	2" (5.1cm)	2.5" (5.1cm)	2.5" (6.4cm)
Replacement Microtube Holder	#441	#442	#443
Tube Capacity	8	8	20



The Sound Enclosure (#432B) is highly recommended for all Cup Horn users. In addition to reducing sonication noise to safe levels, it securely supports the Cup Horn in the proper position. The Sound Enclosure features ports on either side to allow coolant tubing to pass from the Cup Horn to a water source or pump system outside the box.