

### 4 Tip Horn



The 4 Tip Horn enables 4 samples to be processed simultaneously. This horn offers high intensity and is effective for cell disruption, mixing, homogenization and many other applications. Tip Diameter is 1/8" and the space between each tip is 1.05".

The 4 tip horn can process 1-15ml sample volumes and is made to fit into both 1.5ml and 15ml tubes. When processing small volumes with high intensity, samples will heat up quickly. In addition to using the pulse mode, a CoolRack tube cooling module is highly recommended. Cool Rack accessories work well with the 4 tip horn.

Replacement 1/8" tips can be ordered separately. The 4 tip horn can be mounted in the #459 stand (as shown) or in the Sound Enclosure (#432B2; see page 11).

| Part # | Description      |
|--------|------------------|
| 4659   | 4 Tip Horn       |
| 4660   | Replacement Tips |



### 24 Tip Horn

The 24 Tip Horn processes each well of a 24 well plate simultaneously. This horn is effective for cell disruption,

mixing, dissolution and many other applications.

The 24 Tip Horn can be mounted inside the Sound Enclosure (page x) to reduce the noise level generated by sonication. Alternatively, a Heavy Duty Stand is available (page 11) which allows precise adjustment of the horn in and out of the microplate.

| Part # | Description      |
|--------|------------------|
| 4579   | 24 Tip Horn      |
| 4598   | Replacement Tips |



### Dual Horn

The Dual Horn allows a single Sonicator unit to process two samples simultaneously. The rectangular-shaped horn doubles the unit's output, and enables two probes to vibrate with the same intensity as a single probe.

The distance from center to center of each probe is 4.5". 3/4" solid tip probes are included with the Dual Horn but 1/2" or 1" probes may also be used.

The Dual Horn is capable of withstanding the rigors and harsh chemicals of environmental testing labs. Sonication is used by environmental labs to process soil and sediment samples in lieu of soxhlet extraction methods. The Sonicator and Dual Horn meet the EPA requirements specified in method SW846-3550.

Dual Horn components can be ordered separately. The Dual Horn can be mounted in the Sound Enclosure (#432B) or on the Adjustable Stand (#438).

| Part # | Description                          |
|--------|--------------------------------------|
| 4525   | Dual Horn with Probes                |
| 4208   | Replacement 3/4" (19 mm) Solid Probe |