



# VCX 130

130 Watts

Processing Volume: 200µl – 150mL\*

The **VCX 130** is a 130 watt, programmable ultrasonic processor and our most popular small volume system.

This model offers the same programmability as larger **VCX** versions.

The 1/4" probe (10 – 50ml volumes) is included and a variety of accessories are available for various applications and sample volumes.

## FEATURES:

- Programmable
- Pulse mode
- 10 hour timer
- Variable power output
- Wattage and Energy display



(stand is optional)

Ordering information: Model no. **VCX 130**  
130 watt ultrasonic processor with 1/4" diameter probe and tool kit.

## SPECIFICATIONS

Power Output	130 watt maximum	Converter Cable Length	Permanently attached 5 ft. (1.5m)
Frequency	20kHz		
Dimensions	H x W x D: 4.5 x 9.75 x 12.5" (115 x 250 x 320mm)		
Ultrasonic Converter Diameter	Part #CV18 1.25" (32mm)	Tool Kit	Part #888-00056 open end wrench (2 included)
Length	5.75" (146mm)		
Standard Probe Tip Diameter	Part #630-0435 1/4" (6mm)	Optional: Stand with Clamp	Part #830-00460
Length	5.4" (137mm)	Sound Enclosure	Part #830-00451
Material	Ti6Al4V titanium alloy		

\*The actual processing volume of a specific probe or accessory is application specific.



# ACCESSORIES FOR 130 WATT SYSTEMS

## PROBE OPTIONS

Probes amplify and radiate the ultrasonic energy into the sample. All probes are fabricated from titanium alloy Ti-6Al-4V and are autoclavable. Each ultrasonic processor includes a standard probe which can be substituted for a different size or accessory if requested.

**TIP DIAMETER**

5/64" (2mm)

**PART NO.**  
630-0423**VOLUME**  
0.2-5mL**AMPLITUDE**  
135µm**TIP DIAMETER**

1/8" (3mm)

**PART NO.**  
630-0422**VOLUME**  
0.5-15mL**AMPLITUDE**  
170µm**TIP DIAMETER**

1/4" (6mm)

**PART NO.**  
630-0435**VOLUME**  
10-50mL**AMPLITUDE**  
120µm**TIP DIAMETER**

1/2" (12mm)

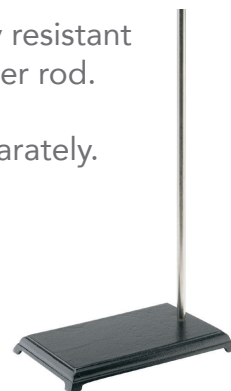
**PART NO.**  
630-0504**VOLUME**  
50-150mL**AMPLITUDE**  
45µm

Only for 130W models

## SUPPORT STAND WITH CLAMP

Securely support your ultrasonic processor with a chemically resistant plastic holder on a 5.5" x 9" cast-iron base with 0.5" diameter rod.

The converter clamp and support stand can be ordered separately.

**PART NO.**  
830-00460**PART NO.**  
830-00118**PART NO.**  
830-00109

## SOUND ABATING ENCLOSURE

Ultrasonic processing produces high pitched noise, which originates from the vessel walls and the liquid surface. The sound enclosure reduces the noise to comfortable levels. A support rod and converter clamp are included. Access ports are available on both sides and the top of the enclosure.

**OUTSIDE DIMENSIONS:**

(H x W x D) 20" x 12" x 12" (508 x 305 x 305 mm)

**INSIDE DIMENSIONS:**

(H x W x D) 18.5" x 11" x 11" (470 x 280 x 280 mm)

**PART NO.**  
830-00451

## FOOTSWITCH

For hands-free operation with 10' (3m) cable.

**PART NO.**  
830-00004



**PART NO.**  
630-0602

### **EIGHT ELEMENT PROBE**

The eight-element probe increases productivity and minimizes repetitive tasks by processing 8 samples simultaneously. Recommended for use in 96 well plates.

**SPACING BETWEEN TIPS**

1 $\frac{1}{32}$ " (9 mm)

**TIP LENGTH**

1 $\frac{1}{16}$ " (17 mm)

**TIP DIAMETER**

1 $\frac{1}{8}$ " (3 mm)

**PROCESSING VOLUME**

150-250 $\mu$ l



**PART NO.**  
630-0608

### **CUP HORN**

The cup horn can process small samples in isolation without probe intrusion, removing the risk of cross contamination or aerosolization. This is especially useful when working with infectious materials.

The water-filled micro cup horn screws into the inverted converter in place of a probe. A 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 recirculated within the cup, inhibiting heat build-up during extended operation. A holder for 1.5mL tubes is included.

Outlet connects to 1/2" (13 mm) I.D. tubing.

Inlet connects to 3/8" (9.5 mm) I.D. tubing.

### **ROSETTE GLASS COOLING CELLS**

The rosette is a glass cell that enables uniform treatment at low temperatures. Fill the rosette with your liquid sample and place it in an ice bath. The ultrasonic energy forces the sample to circulate under the probe and through the cooling arms.



300mL Rosette

**PART NO.**  
830-00001

30mL Rosette

**PART NO.**  
830-00003



### **JACKETED BEAKERS**

The jacketed beaker is attached to a chiller or another cold water source. The chilled water is circulated around the liquid within the beaker maintaining the desired sample temperature.

10mL cooling cell  
with water jacket

**PART NO.**  
830-00009

100mL cooling cell  
with water jacket

**PART NO.**  
830-00010