

# Ultrasonic homogeneisator 400 watts UP400S for large samples



The ultrasonic processor UP400S (400 watts, 24kHz) is our most powerful laboratory device. With sonotrodes of a diameter range from 3 to 40mm the device is suited for **sample volumes from 5 to 2000ml**. In flow approx. 10 to 50 liters per hour can be treated. For example, it is used for liquid treatment methods, such as homogenizing, dispersing, extracting and degassing, or for the breaking-down of cells. For the preparation of test portions the UP400S is mainly used for bigger volumes. It is suited for the practical process development in the laboratory but also in the college of technology as well as for the production of small quantities.

For production quantities a PC-control or a connecting lead to a central control of the user's plant is recommended in order to raise the process safety. With special flow cells and flange connections liquids can also be sonicated at high temperatures and pressures.

High power generates the intensive cavitation required, but this results in unwanted noise. For operating the UP400S we recommend to use the sound protection box.

Several accessories are available for the UP400S. Below, you will find its technical specifications.

## UP400S in the sound protection box

Technical Data	UP400S
<b>power</b>	400W
<b>power control</b>	amplitude 20-100%
<b>pulse range</b>	0-100%
<b>operating frequency</b>	24kHz
<b>dimensions</b>	(LxWxH) 190x200x130mm
<b>weight</b>	3.3kg
<b>power supply</b>	230V~, 4A, 50-60Hz 110-120V~, 6.3A, 50-60Hz



**Price EUR HT** **4 435.00** [www.imlab.be](http://www.imlab.be)

The sonotrodes, in titanium, are the tools that transmit the ultrasound into the liquid.

Sonotrode	Ø (mm)	length (mm)	sample volume	Price EUR HT
H3	3	100	5-200ml	<b>294.00</b>
H7	7	100	20-500ml	<b>294.00</b>
H14	14	100	50-1000ml	<b>294.00</b>
H22	22	100	100-2000ml	<b>294.00</b>
H40	40	100	200-4000ml	<b>518.00</b>

Other accessories	Price EUR HT
ST1-16 Stand, diam. 16mm height 600 mm, base 300 x 150mm	<b>196.00</b>
SB3-16 sound-protection box	<b>1 037.00</b>