





**Benchmark** 

# **PULSE+150**

Ultrasonic Homogenizer

-  ***Ideal for cell disruption, DNA shearing and ChIP assays***
-  ***Programmable with touch screen control and pulsed mode operation***
-  ***For volumes 0.1 to 150ml***
-  ***Supplied complete with soundproof enclosure and integrated stand***



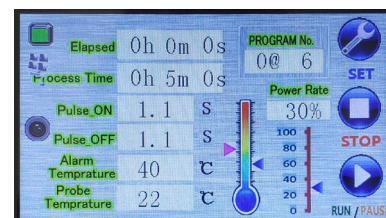
# PULSE-150

Ultrasonic Homogenizer

The Pulse 150™ Ultrasonic Homogenizer uses cavitation and ultrasonic waves to break cells in suspension, shear DNA and prepare samples for ChIP assays. With up to 150 watts of power, the unit can process samples from 0.1 ml to 150 ml (with the appropriate horn).

All components needed for homogenization are included with the Pulse 150 - a controller, transducer, temperature probe, 6 mm diameter titanium alloy horn and wrenches to change horns. A soundproof box with sample platform is also supplied as standard. The box helps to reduce the noise generated by the sonicator. The 6mm horn is appropriate for volumes from 10ml to 100ml. Optional horns are available for other volumes.

Operating parameters are set and viewed on the 4.3" color touch screen. Pulsed operation is easily programmed as is the power level. Twenty programs can be stored in memory and recalled as needed. Alarms alert the user to over temperature, over/no load and expiration of time.



Pulse 150 Home Screen



Supplied with soundproof box and integrated stand

Horn				
Horn size	2mm	3mm	6mm*	8mm
Process capacity	0.1 - 5ml	3-10ml	10-100ml	20-150ml
Power ratio	1 - 45%	1 - 55%	1 - 75%	1 - 90%

\*Supplied with Pulse 150

## Technical Data

Power	1.5 - 150 W, continuously adjustable
Frequency	20 - 25 KHz
Cycle time (pulse on/off)	0.1 - 99.9 sec
Timer	1 sec - 99 hours, 59 min, 59 sec
Duty cycle	0.1 - 99.9%
Volume*	0.1 - 150 ml
Program memory	20 programs
Display/control	4.3" full color touch screen
Horn	6mm titanium (others available)
Alarms	No load, over load, end of run, over temperature
Controller	
Dimensions (W x D x H)	12 x 18.5 x 16.9 in. 30.5 x 47 x 43 cm
Weight	35.3 lbs/16 kg
Soundproof enclosure	
Dimensions (W x D x H)	13.8 x 13.8 x 21.7 in. 35 x 35 x 55 cm
Weight	22 lb/10 kg
Electrical	
Warranty	2 years

\*Volume dependent upon the installed horn. Supplied with 6mm horn for volumes 10 - 100 ml.

## Ordering Information

DP0150*	Pulse 150 Ultrasonic Homogenizer, complete with controller, transducer, 6mm horn and soundproof enclosure
DP0150-2	Horn, 2 mm diameter, for 0.1 - 5 ml
DP0150-3	Horn, 3 mm diameter, for 3 - 10 ml
DP0150-6	Horn, 6 mm diameter, for 10 - 100 ml
DP0150-8	Horn, 8 mm diameter, for 25 - 150 ml

\*115V with US plug. For EU plug, please add -E to cat no.

*For information on the entire line of Benchmark homogenizers, including handheld rotor stator units and bead homogenizers, visit our website:*  
[www.benchmarkscientific.com](http://www.benchmarkscientific.com)