





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

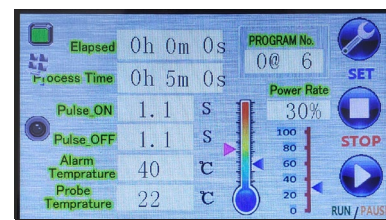
The Pulse 150™ Ultrasonic Homogenizer uses cavitation and ultrasonic waves to break cells in suspension, shear DNA and prepare samples for ChIP assays. With up to 150 watts of power, the unit can process samples from 0.1 ml to 150 ml (with the appropriate horn).

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.

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

\*Supplied with Pulse 150



Pulse 150 Home Screen



Supplied with soundproof box and integrated stand

## 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.<br>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.<br>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.