**Specifications for Probe Ultrasonic Processor**

1. **Power -700 watts or more**
2. **Frequency 20 – 30 KHz**
3. Programmable Timer – Minimum 10 hours
4. **Digital (or) Touch screen display**
5. Automatic frequency tuning, adjustable amplitude from 20 to 100%, adjustable pulse

 from 0 to 100%.

1. Operating Voltage: 220-240 V, 50 Hz
2. Probe tips should be made of chemical resistant solid material suitable in aqueous and organic/oil medium.
3. Probe size suitable for three different volume range, 0.5-15 mL, 20-250 mL and 100 -1000 mL.
4. Sound Abating Enclosure with stand for holding the probe
5. An integrated Temperature Probe enabling temperature monitoring in the range 1-100º C or better
6. Continuous or pulsed ultrasonic with adjustable pulse on and off times to reduce the heat gain in temperature sensitive sample.
7. 100 and 300 mL cooling cell to reduce heat while sonicator is under continuous operation.
8. Overload protection circuit
9. Automatic tuning and frequency control eliminating the need for constant adjustment of the power supply.
10. Microprocessor based programmable controller
11. Run multiple programs in sequence
12. The instrument should be supplied with necessary power cables and tool kits suitable for changing the tips and other spare parts.
13. Warranty: One year following installation.
14. Optional Accessories:
15. Booster
16. Cuphorn
17. Adjustable support for sample mount
18. Additional two years warranty.
19. 2 spare probes (should be supplied when required)