

### Hybridization oven and UV Cross-linker

1. Bench top hybridization oven chamber with microprocessor controlled temperature and variable speed along with a UV cross-linker and a handheld UV lamp for nucleic acid hybridization and cross-linking (see below for details).
2. The hybridization oven and cross linker should operate independently of each other.
3. The hybridization oven should have an interchangeable rocker plate with easily removable protective tray for easy cleanup of spilled media.
4. A touch sensitive keypad with microprocessor controlled LCD based temperature adjustment in the range of 10-80 °C or better range.
5. The accuracy of the temperature should be  $\pm 0.2^{\circ}\text{C}$  or better. Temperature stability inside the oven chamber should be  $\pm 0.2^{\circ}\text{C}$  or better. An internal fan to assist in the circulation of hot air for uniform heating should be fitted in the oven chamber.
6. The power specification should be 220-230V/50-60Hz. Heating elements 1000 watts or better.
7. The rocking plate speed should be in the range of 10-15 RPM or with better range of shaking and orbiting.
8. The exterior dimension of the unit should be in the range of 16-18W x 15-19H x 15-18D inches while the interior dimension should be in the range of 13-15W x 8-11H x 10-11D inches or better.
9. Rocker tray platform with 10-13W x 7-9D inches or better which can be accommodated in side the oven.
10. Ultraviolet tubes should supply uniform overhead UV illumination.
11. A microprocessor based control timer to preset time and UV amount should be available in the instrument.
12. The system should allow the viewing door to see the UV-cross-linking without exposing the user.
13. Internal interlocking should be provided to protect user from UV rays.
14. The UV cross-linkers should be available with the hybridization oven in the form of subpart or should be stackable.
15. The handheld UV lamp should have 6 watt lamp with a combination of shortwave/ longwave (254/365nm) in one lamp.
16. Bottles-4; size in 35x150 mm: Small bottles made from lead-free borosilicate glass with a polypropylene cap and PTFE seal.
17. Rocker and orbital shaking trays with clamps should be provided along with accessories for full functionality of the instrument.
18. Bottle holder carousel and the two wheels along with rod should be included.
19. Quote an additional hybridization oven without UV-cross-linker having above-mentioned specification, which can be stacked on the top of the other and plus a stacking kit as an optional.
20. Quote the price of orbital motion tray and rocker tray as an optional.
21. The vendors must supply all accessories for full functionality of the instruments and justify the items in the order of requirement.
22. Quote at least two years of warranty and plus quote price for additional two year AMC as an optional.
23. To support your claim of specification include original product catalogue. Photocopies documents and catalogue will not be accepted as a part of the specification.