

Advance Protocol Ovens

1. Chamber Volume: approximately 104 Liters or more
2. Footprint should not exceed : 0.36m^2
3. The ovens should have mechanical convection
4. Temperature Range 50°C to 330°C
5. Spatial Temperature Deviation at 150°C : $\pm 1.8^\circ\text{C}$
6. Temperature Deviation over Time at 150°C : $\pm 0.2^\circ\text{C}$
7. The Inner chamber should be made of AISI 304 / 1.4301 Stainless Steel
8. The Ovens should have an automatic over temperature alarm
9. The ovens interior should have rounded corner for ease of clean and better contamination control
10. The system should have shelving system that can be fitted inside the chamber with just one click
11. The ovens interface should be microprocessor controlled and should be a vacuum fluorescent display with touch button control.
12. The controller should be programmable for temperature ramps and dwells with up to 10 programs with 10 discrete steps
13. The oven should be provided with 2 shelves as standard and should be capable of accommodating a maximum of 16 shelves
14. Each of the shelves should be capable of accommodating a load of 25 Kg
15. The mechanical convection oven should have electronics fan speed adjustment and control
16. The oven should have a electronically controlled damper opening for venting out the chamber air
17. The ovens should be covered with 2 years of warranty
18. The oven should have RS 232 interface providing data logging capability
19. The ovens should be stackable with optionally available stacking kit
20. The ovens should have the choice of daily / weekly on/off timer with choice of real time clock or hours of operation display
21. The door should be able to open at 180° angle for complete access to chamber interior.
22. The ovens should be provided with an access port for independent monitoring of sample temperature
23. The ovens should have optional accessories like additional shelf, stacking kit and support stand with castors
24. The ovens should have a boost function for rapid heat up of chamber interior
25. The oven should have the option of providing stainless steel exterior (factory installed)

26. The oven should have an option (factory installed) of incorporating a viewing window & light inside with limiting temperature of 250°C and coated exterior
27. The oven should have dry alarm contact to connection of alarm device
28. The ovens should be able to operate at 230 V / 50 Hz