Email : sales@scilabexport.com
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Product Name :

Electric Autoclave

Product Code :

SLE/LA/01



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Description :

This electrically heated steam autoclave follows the pressure-cooker pattern and handles media, glassware and instruments in teaching laboratories. The aluminium body and lid are each formed without seams, and a 2 kW heater raises steam to a working pressure of 15 psi. The lid carries a pressure gauge, for following each stage of the run, and a double safety valve.

Electric autoclave specifications

Parameter	Detail
Type	Electrically heated steam autoclave
Heater	2 kW
Working pressure	15 psi
Body and lid	Aluminium, formed without seams
Lid fittings	Pressure gauge and double safety valve
Product code	SLE/LA/01
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Teaching practicals with the electric autoclave

Boiling versus autoclaving. Seed three tubes of nutrient broth with the same hay infusion, using an inoculation loop. Keep one as a control, boil the second in a water bath for ten minutes and hold the third at 15 psi in the autoclave. After incubation, the control turns cloudy, and cloudiness in the boiled tube shows that heat-resistant spores survived boiling.

Plotting a pressure curve. With a load of water-filled flasks in an autoclave basket, one student reads the gauge every minute from switch-on, through venting and the hold at 15 psi, to the return to zero. The plotted curve shows how long heating up and cooling down take compared with the hold itself.

Clearing culture waste. At the end of the session, used plates go into an autoclave bag with its neck left open. The bag runs through a full cycle at 15 psi before it is sealed and sent for disposal.

Frequently Asked Questions About the Electric Autoclave

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