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Product Name :

Expansion Of Perfect Gas

Product Code :

SLE/EA/22



Description :

Expansion Of Perfect Gas (Product Code: SLE/EA/22) is a thermodynamics apparatus used to study how air behaves as a perfect gas when it moves between a pressurised vessel and an evacuated vessel in engineering laboratories. Two transparent, rigid, interconnected vessels are charged by an electrical air pump, and the important readings are captured, displayed andcharted on a computer in real time. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory inAmbala, India.

Key Details

Parameter	Detail
Vessels	Two frame-mounted, interconnected, transparent and rigid vessels
Pressure vessel	One vessel equipped for operation under pressure
Vacuum vessel	The second vessel equipped for operation under vacuum
Pressurising and evacuating	Electrical air pump together with valves and tappings
Data handling	Accurate real-time data capture, monitoring, display, calculation and charting of the important readings on a computer
Flexibility	Vessels are independent and can also be used together to study various thermodynamic processes
Product code	SLE/EA/22
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Perfect Gas Expansion Apparatus Used For?

Students pressurise one vessel, evacuate the other and then open the valves between them, watching the readings respond as gas expands from one vessel into the other. The results are compared with perfect gas relationships such as Boyle's law. Using a single vessel gives simpler exercises, while the pair together opens up a wider set of thermodynamic processes.

Because readings are charted on a computer in real time, fast pressure changes that are hard to note by hand are captured cleanly for later calculation. Close the valves correctly before running the pump, and protect the transparent vessels from knocks. It is a modern option for colleges sourcing engineering lab equipment in India with computer-based data.

OEM Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, is the OEM (original equipment manufacturer) of the Expansion Of Perfect Gas apparatus, which it manufactures at its own licensed factory in Saha, Ambala, Haryana, India. Questions about the data capture arrangement, the air pump or the valves are answered by the manufacturer rather than a reseller — jus our comp