Email : sales@scilabexport.com
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Product Name :

Demonstrative Plan Condenser/Capacitor

Product Code :

SCL2405/032



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Description :

Demonstrative Plan Condenser/Capacitor (Product Code: SCL2405/032) is a large parallel-plate capacitor used to demonstrate how plate separation changes stored charge andcapacitance in secondary-school and college electrostatics lessons. Two 250 mm metal discsstand on an insulated stand and can be moved coaxially from 160 mm apart down to touching, soa whole class can watch the gap change. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Type	Demonstration plane (parallel-plate) capacitor
Plates	Two metal discs attached vertically to an insulated stand
Plate diameter	250 mm
Plate material	Solid castings, stainless steel or corrosion-resistant steel
Electrode	Attached to the middle of the disc
Plate spacing	0–160 mm; the support allows coaxial approach of the discs down to zero distance
Plate adjustment	Possible between 0 and 20 mm
Finish	No burrs
Product code	SCL2405/032
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Demonstration Plate Capacitor Used For?

The classic lesson connects the two discs to an electroscope, charges them, and then slowly widens the gap. Because the charge on the plates cannot escape, the electroscope leaves open further as the plates move apart: the same charge now sits at a higher potential difference, which shows students that capacitance falls as separation grows. Closing the gap again brings the leaves back down, and sliding an insulating sheet between the discs at a fixed spacing introduces the idea of a dielectric in the same period.

For clean results, set the discs parallel before charging, keep hands away from the plate faces during readings, and run the demonstration on a dry day, since humid air bleeds charge away. The large 250 mm plates keep the effect visible from the back of a classroom, making this a useful physics demonstration kit for India's senior secondary syllabus.

What to Specify When Ordering

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