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Product Name :

Buoyancy Balance

Product Code :

SLE/CE/24



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Description :

Buoyancy Balance (Product Code: SLE/CE/24) is a weighing system used to determine the density of concrete by weighing a specimen in air and then in water, in civil engineering and materials testing laboratories. Its rigid support frame carries a platform-mounted water tank that a mechanical lifting device raises to immerse the specimen hanging below the balance. The system is developed and made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Method	Sample weighed in air and in water to calculate the density of concrete
Frame	Rigid support frame
Water tank	Mounted on a platform
Lifting	Mechanical lifting device raises the water tank through the frame height
Specimen position	Suspended below the balance, which is fixed on a cradle
Balance use	The balance supplied can also be used as a standard weighing device
Product code	SLE/CE/24
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Buoyancy Balance Used For?

The buoyancy method relies on Archimedes' principle: a specimen weighs less in water than in air by the weight of water it displaces. From the two weighings the laboratory calculates the specimen volume and then its density, without needing to measure an irregular shape with callipers.

Because the water tank is lifted up to the specimen rather than the specimen being lowered by hand, the sample stays steady and the reading settles quickly. Check that no air bubbles cling to the specimen and note the water temperature for each test. When the frame is not in use for density work, the balance serves as an everyday laboratory weighing device, a space-saving arrangement for labs sourcing test and measurement instruments in India.

OEM Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, developed this buoyancy balance system and is its OEM. The frame, tank platform and lifting arrangement are built at the company's own licensed factory at Saha, Ambala, Haryana, India, and the complete system is supplied factory-direct to engineering colleges, testing laboratories, dealers and importers. Ask us about replacement parts or matching units for a second test bay. Background is on th

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