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Product Name :

Buoyancy Balance Apparatus

Product Code :

SLE/CE/101



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Description :

Buoyancy Balance Apparatus (Product Code: SLE/CE/101) is a weighing system thatmeasures a specimen in air and then suspended in water, used to find the specific gravity,density and water absorption of aggregates, concrete and rock in civil engineering laboratories.Materials-testing labs and engineering colleges choose it for its 6000 g capacity with 0.1 greadability and a mechanical lift that raises the water tank to the specimen. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipmentmanufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Balance capacity × readability	6000 g × 0.1 g
Frame	Rigid support frame incorporating a water tank mounted on a platform
Immersion method	Mechanical lifting device raises the water tank through the frame height to immerse the specimen suspended below the balance
Dual use	Balance can also be used as a standard weighing device
Supplied with	Frame, water tank and suspension hook
Power supply	220–240 V AC, 50–60 Hz, 80 W
Product code	SLE/CE/101
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Buoyancy Balance Used For?

The apparatus applies Archimedes' principle: a specimen weighs less in water by exactly the weight of water it displaces, so weighing it in air and immersed gives its volume and hence its density. The specimen, or a wire basket of soaked aggregate, hangs from the suspension hook beneath the balance. After the reading in air, the lifting device raises the tank until the specimen is fully submerged, and the immersed reading is taken without disturbing the hook.

Raising the water rather than lowering the sample keeps the load steady and the readings repeatable, which matters with 0.1 g resolution. When density work is finished, the balance serves as an everyday weighing device, so one bench unit covers both jobs. This makes it versatile laboratory equipment for technical institutes running aggregate, concrete and rock tests.

What to Specify When Ordering

- Number of complete systems (balance, frame, water tank and suspension hook)
- Whether density baskets for aggregate samples are also required
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OEM