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Product Name :

Ripple Tank Kit

Product Code :

SCL/AG26-117



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Description :

Ripple Tank Kit (Product Code: SCL/AG26-117) is a wave demonstration set used to show reflection, refraction, diffraction and interference of water waves in school and college physics laboratories. Teachers run it on a 600 mm × 500 mm wooden tray with a plate-glass base, driven by a small DC motor on a wave generator bar. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, with its illuminant, rheostat and power supply unit as a complete wave motion kit for schools.

Specifications

Parameter	Detail
Purpose	Visual demonstration of wave motion: reflection, refraction, diffraction and interference
Tray	Wooden, with plate-glass base and detachable legs
Tray overall size	600 mm × 500 mm × 55 mm deep
Generator supports	Pair of support rods with integral G clamps attached to the tray sides
Wave generator bar	Waxed wood, 330 mm long, with a row of holes; 1.5 to 4.5 V DC electric motor mounted at the centre
Dippers	2 spherical dippers
Barriers (set of 4, metal)	Two straight, 150 mm × 25 mm; one curved, 215 mm chord length × 25 mm high; one short straight, 25 mm × 25 mm
Beaches	Set of 4 mesh beaches
Accessories (one each)	Water dropper; wooden rod 230 mm × 25 mm dia.; rubber tube 600 mm × 6 mm bore; glass plate 300 × 202 × 4 mm; sponge; Hoffmann clip; support for illuminant; illuminant; rheostat to control motor speed; ripple tank power supply unit
Spare	Extra 4.5 V DC motor
Documentation	Instruction book
Product code	SCL/AG26-117
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Ripple Tank Used For?

A ripple tank turns invisible wave behaviour into patterns a whole class can watch. With a shallow layer of water in the tray and the illuminant above it, light passing through the glass base throws bright and dark wave bands onto a white sheet below. The vibrating bar sends straight wavefronts across the water, while the spherical dippers produce circular ripples; using both dippers together gives a clear interference pattern.

The metal barriers show reflection from flat and curved surfaces and, set with a gap between them, diffraction. The ripple tank is supplied with a power supply unit, rheostat, and illuminant. The legs, where wave interference is observed, are made of wood. The ripple tank is used to keep the water level constant.

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