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Product Name :

Ripple Tank

Product Code :

SLE/PHY/121



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Description :

This economy ripple tank lets a class watch water waves reflect, refract, diffract and interfere on a large transparent viewing surface. A tough moulded frame holds a 405 x 405 mm tank whose sloping sides minimise noise in the pattern. A 12V halogen lamp on an adjustable arm lights the waves, and a motor-driven ripple bar sends straight wavefronts across the water.

Ripple tank specifications and parts

Parameter	Detail
Tank, internal size	405 x 405 mm
Tank, external size	420 x 420 mm
Tank sides	Sloping, to minimise noise
Frame	Tough moulded frame with a large transparent viewing surface
Light source	12V halogen lamp on a lamp unit with adjustable arm
Wave generator	Ripple motor with eccentric cam mounted on the ripple bar
Wave accessories	Curved reflector, 2 barriers, roller bar, point dippers, concave perspex plate, rectangular perspex plate, hand stroboscope
Mounting parts	4 push-fit legs, 3 support pillars, 2 motor support springs, 2 ripple bar hanging hooks
Power supply	Not included
Product code	SLE/PHY/121
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Wave experiments in the ripple tank

Wavelength, frequency and wave speed. Run the motor at a steady rate and view the pattern through the hand stroboscope until the bands stand still. Measure across several bright bands and divide to get one wavelength. Time a counted number of waves with a digital stopwatch, or read the flash rate from a xenon stroboscope, then multiply frequency by wavelength to get the speed.

Reflection at plane and curved surfaces. Lay one barrier across the tank at an angle and roll the roller bar once to send a single straight pulse. Trace the incident and reflected wavefronts and compare the two angles. Swap in the curved reflector and mark the point where the reflected waves meet.

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