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Product Name :

Solar Hydropower Ready-to-go

Product Code :

SLE/PHY/212



Science Lab

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Description :

Solar Hydropower Ready-to-go (Product Code: SLE/PHY/212) is a self-contained water turbine experiment kit used to take junior high school students from first qualitative hydropower trials to fundamental quantitative measurements on turbines. What sets it apart is a set of different turbine types, from a simple water wheel to a Pelton turbine, packed with manometers, flow sets and a water meter in one aluminium case. This physics experiment kit for schools is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

Specifications

Parameter	Detail
Kit type	Hydropower experiment kit from the Ready-to-go series, in an aluminium case
Turbines	Water turbine casing with a turbine set ranging from a simple water wheel to a Pelton turbine
Generator	Induction generator, 12-fold
Pressure measurement	Manometer set 2 bar and manometer set 4 bar
Flow control	Flow sets 4 mm, 8 mm and 12 mm; intake connector; flow box; connection set
Water quantity	Water flow meter; collecting box 6 L
Electrical loads	Light bulb module, LED module 2 mA (red), buzzer module, motor module without gear, resistor module
Electrical measurement	AV module used with the Solar-Base unit Large
Experiment level	Qualitative introduction to hydropower for junior high school, plus fundamental quantitative experiments on the physics of water turbines
Product code	SLE/PHY/212
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

Complete list of components (German part names from the packing list translated):

- 1 x Water turbine casing and 1 x turbines set
- 1 x Induction generator, 12-fold
- 1 x Manometer set 2 bar and 1 x manometer set 4 bar
- 1 x Intake connector
- 1 x Flow set 4 mm, 1 x flow set 8 mm and 1 x flow set 12 mm
- 1 x Flow box and 1 x connection set
- 1 x Water flow meter (Wassermengenzähler)
- 1 x Collecting box 6 L
- Fabric-reinforced hose 12/18 mm, cut length
- 2 x Hose clamp, plus 1 x stainless steel hose clamp with turn knob and hex screw

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