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1905 - leXsolar-Hydropower Ready-to-go

Order code: **5501.1905**



Cena bez DPH

2.446,00 Eur

Price with VAT

2.959,66 Eur

Parameters

Subject

Wind and hydropower

Quantitative unit

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Besides qualitative experiments as introduction into the topic hydropower usage for junior high school students, this experimenting kit offers fundamental quantitative experiments on the physics of water turbines. A foundation in reality enjoys, as with all leXsolar products, a high priority. leXsolar-Hydropower Ready-to-go is therefore equipped with different types of turbines - from a simple water wheel to a modern, highly efficient Pelton turbine.

Experiments:

- Volume flow, flow velocity and power as a function of the height of fall
- Volume flow, flow velocity and power as a function of the pipe cross-section
- Comparison of the functionality of pelton turbine, crossflow turbine and waterwheel
- Comparison of the performance of the pelton turbine, crossflow turbine and waterwheel in dependence to the volume flow and pressure



Components:

- 1× 1900-02 Water turbine casing
- 1× 1900-03 Turbines set
- 1× 1900-05 Manometer set 2 bar
- 1× 1900-06 Manometer set 4 bar
- 1× 1900-07 Intake connector

- 1× 1900-08 Flow set 4 mm
- 1× 1900-09 Flow set 8 mm
- 1× 1900-10 Flow set 12 mm
- 1× 1905-01 Aluminium case 1905
- 1×1905-02 Induction generator 12 fold
- 1× 9100-03 AV-Module
- 1× 1100-26 Light bulb module
- 1× 1400-08 LED-module 2mA, red
- 1× 1100-25 Buzzer module
- 1× 1100-27 Motor module without gear
- 1× 1100-19 leXsolar-Base unit Large
- 1× 1100-22 Resistor module
- 1× 1900-11 Flow box
- 1× 1100-28 Color discs - Set 1
- 1× 1900-12 Connection set
- 1× L2-02-066 Wassermengenzähler
- 2× L2-05-131 Schlauchschelle
- 1× L3-03-258 Info sheet initial startup
- 1× L3-03-272 Einräumplan 1905 Hydropower Ready-to-go
- 0,2× L2-02-062 Gewebeschlauch 12/18mm
- 1× L2-06-014 Test lead black 50 cm
- 1× L2-06-015 Test lead red 50 cm
- 1× L2-06-012 Test lead black 25 cm
- 1× L2-06-013 Test lead red 25 cm
- 1× L2-05-135 Schlauchschelle mit Drehkopf und Sechskantschraube, Edelstahl
- 1× L3-01-197 Auffang-Box 6 L
- 1× L3-01-194 Einlage HydroPower RtG 1905