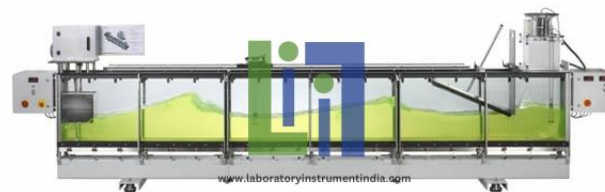




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Wave Energy Converter OWC

**Product Code :**  
LBNY-0005-12500014



#### **Description :**

It is a laboratory-scale wave energy converter consisting of a wave generator, a wave flume and the OWC wave energy converter with turbine unit. Structurally they are easy to integrate into moles, harbour walls and coastal protection systems. Wave energy converters use the energy from continuous wave movements for the environmentally friendly production of electricity. They can supply electrical energy along the coast, in particular to remote locations.

#### **Learning Objectives And Experiments:**

Measurement of wave motions  
Familiarisation with design and operation of a Wells turbine  
Familiarisation with operating principles of a wave energy converter  
Understanding of energy generation from wave motion  
Optimisation of operating behavior.

#### **Technical Specification :**

Wave energy converter with oscillating water column, chamber and turbine unit  
Turbine unit with rotor and generator  
Pressure measuring points to determine the flow velocity in the turbine  
Wave energy converter consisting of: wave generator, wave flume and wave energy converter  
Wave height measured by ultrasound  
Baffle plate for guiding the wave into the chamber  
Wave generator with control unit, AC motor with adjustable frequency and adjustable lift of displacer  
Turbine load: DC motor for starting up the turbine, switches to generator for electricity production upon reaching

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the target speed.



**Laboratory Instrument India**