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**Product Name :**  
Three Phase Separation Trainer With DCS Control

**Product Code :**  
LBNY-0005-1060008



#### **Description :**

The primary separation operation for crude oil occurs when the crude stream flows through a vessel of sufficient capacity to allow gravitational separation of the gas, liquid hydrocarbon and water phases. This fluid mixture then flows into a horizontal separator vessel fabricated of clear PVC. Gas flow passes through a secondary vertical 2-phase separator. This process trainer blends air, water and refined oil to emulate a crude oil stream. The entire trainer is controlled from an optional distributed control system or dedicated control panel. The separator is equipped with industry-typical process measurement devices.

#### **Technical Specification :**

Two centrifugal pumps for water and oil  
Oil and water storage tanks  
Electronic process measurement and control system with 5 control loops, water-cut meters plus low/high level and pressure sensors  
Clear PVC separator vessels and process piping  
610 x 1830 mm (24 dia. x 72") horizontal separator  
Complete unit mounted on a steel structure skid  
Approximate dimensions of process skid 210 x 400 x 230 cm high (7 x14 x 7.5 high) Dimensions may be adjusted based on room size and layout.

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# Laboratory Instrument India

