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Product Name :
Horizontal Separator Demonstrator

Product Code :
LBNY-0005-1910006



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Description :

This trainer includes a clear horizontal primary separator vessel. The process has manual control valves with rotameters and is intended to demonstrate oilfield separation principles with basic visual manual operation. The three phase separator demonstration apparatus is a small scale vessel that performs continuous separation of a mixture of oil, air and water. The primary separation operation for crude oil occurs when the crude stream flows through a vessel of sufficient capacity to allow gravity separation of the gas, liquid hydrocarbon and water phases. It is available in horizontal and vertical orientations.

Function:

This fluid mixture then flows into a separator vessel fabricated of clear materials. The oil and water are recycled the air is vented to atmosphere. This process trainer blends air, water and refined oil to emulate a crude oil stream.

Technical Specification :

Clear PVC horizontal vessel and process piping
Two centrifugal pumps for water and oil
Oil and water storage tanks
Regenerative air blower
Horizontal uses duplex weir configuration
300 x 600 mm separator
Complete unit mounted on a utility size cart for ease of movement and storage
Approximate overall dimensions 80 x 60 x 120 cm high.



Laboratory Instrument India