

Vertical Separator Trainer



Model: 295-101

DAC Worldwide's Vertical Separator Trainer (295-101) is a reduced-scale, three-phase vertical separator that mimics its real-world counterpart by using alternate production stream components, refined oil, air, and water.

This Vertical Separator Training System includes components like on-board supply pumps, a regenerative blower, a static mixer, metered valves, flowmeters, a custom-fabricated, large-diameter, clear acrylic, vertical separator vessel, and more. The vessel features internal components including an inlet diverter, overflow weir, mist eliminator, and strategically- located and reinforced outlet connections.

DAC Worldwide's Oil & Gas Production training product is mounted on a mobile, formed-steel, powder-coated support frame assembly that can be moved through standard doors and from classroom to classroom.

Specialized Vertical Oilfield Separator Training System

Oilfield separators use gravity separation to efficiently separate mixed raw oil and gas production streams into their component parts: crude oil, gas, and water. An inlet diverter immediately meets the flow crude oil and a spreader at the oil-water interface helps to separate oil from water.

FEATURES & SPECIFICATIONS

- Formed-steel, welded, and powder-coated mounting frame
- Four leveling and locking casters
- Laminated, MDF front panel face and side panels providing moisture resistance and stable mounting surfaces

- On-board 19" X 34" instrument rack, allowing for electrical enclosure mounting, and provision for installation of optional advanced instrumentation and controls by the user
- Front face-mounted 1" and ½", clear PVC supply and return piping system, including control/maintenance valving and service drain.
- Three, variable-area flowmeters (rotameters) at critical inlet locations
- Clear acrylic inlet static mixer
- Six metered ball valves allowing for precise repeatable control of inlet and outlet streams and providing backpressure, if desire, during operation
- Two magnetic drive, seal-less centrifugal vertical process pumps, ½ HP, 0-2 GPM @ 0-10 PSI

SEPARATOR DETAILS

- Custom-manufactured, 12" diameter X 23" Tall, 1/4" wall, clear acrylic separator, with removable flanged top head and reinforced, threaded inlet, and outlet connections
- Separator includes level measurement scale and multiple quick-connect pressure taps for monitoring pressures and differential pressures across the mist eliminator, using optional or user-provided measurement devices
- Separator includes replaceable inlet deflector, oil over-flow simplex weir plate assembly, and replaceable, full-diameter, mist extractor assembly featuring reticulated screen retainers, representative wire mesh media, and assembly retainers
- Front face-mounted operator control panel, including pump and blower on/off control, pilot lights, 24 VDC power connections, and provision for pump and blower control via banana jack-accessed contacts
- Rack-mounted primary power enclosure and control panel including system power breaker, system GFCI, and lighted system stop/start station
- Eight, "free line" (open conduit) connections between power enclosure, and front operator control panel
- Front panel-mounted, modular pressure gauge mounting bracket
- Two, 15-gallon, polyethylene water and oil reservoirs, with covers, and provision for mounting of vertical centrifugal pumps.
- Five, quick-disconnect fittings throughout, allowing for measuring or monitoring of pressure and/or differential pressure at multiple points throughout the system, including the separation vessel.

PRODUCT DIMENSIONS

- 48"L x 37.5"W x 7"H (1220 x 950 x 1975 mm)
- 450 lbs (205 kg)

OPTIONS

- #295-1016 - Level Control Package: Differential Pressure Transmitter and PID Controller

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