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II PHASE VERTICAL HEATER TREATER SEPARATOR

System Description

The well stream enters near the top of the vessel (inlet) and strikes the inlet deflector. Centrifugal action and retention time combine to allow natural gas to separate from the liquid and flow upward through the gas outlet toward to gas scrubber which contains a mist eliminator. The gas exits the top of the separator. Oil and water emulsion travel downward from internal conductor pipe and are released below the firebox. Free water continues downward to be discharged from the bottom portion of the treater.

Emulsion is broken down with rise in temperature, which results small droplets of water coalescing into the drops which enlarge in size and weight of the water droplets until they start settling downward to the water section.

Properties

- Gas Scrubber outlet pressure dropped by regulators to supply pilot gas for burner and pneumatic air for control equipment.
- Bottom and side skid manufactured to move horizontally and to bring vertical position while in place.
- Sand blasting and epoxy coating internally and externally.
- Hydrostatically tested and certificated by Chamber of the Mechanical Engineers.
- The separator is designed by PV Elite and are built according to ASME VIII Div. 1 (ASME Code Version 2013).

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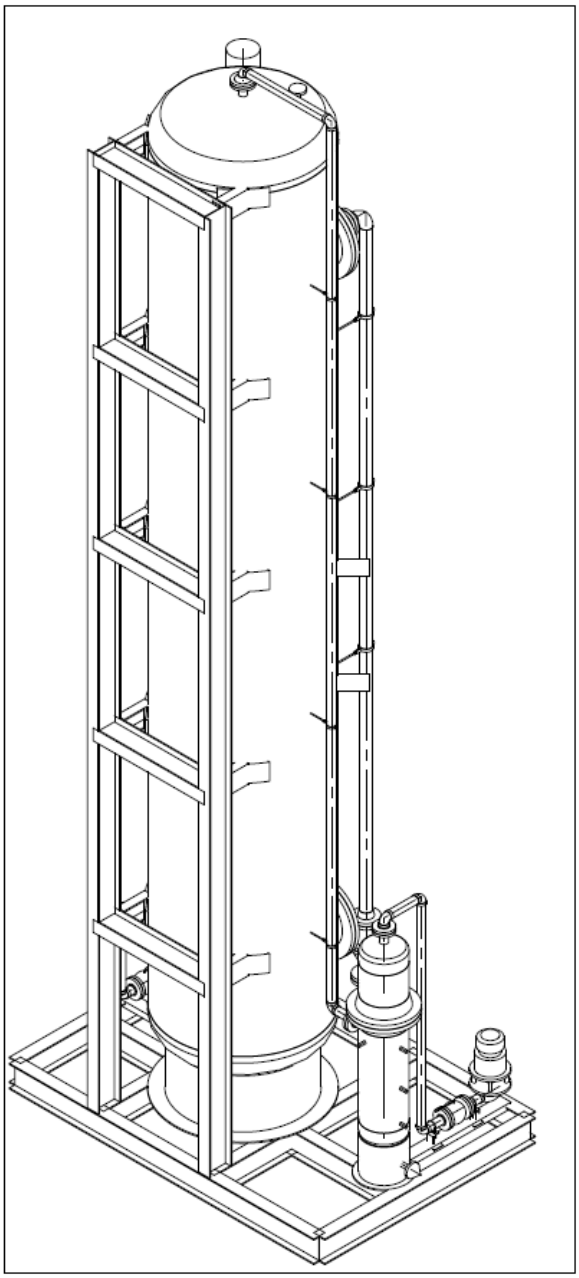
Standard Accessories

- Flanged stack w/bracket
- Removable firebox
- Heat retaining baffle
- Burner and pilot assembly
- Thermostat w/thermowell
- Thermometer w/thermowell
- Level gauge
- Pressure gauge w/isolating valve
- Relief valve
- Mist extractor
- 16” manways
- Outside ladder
- Liquid dump valves
- HH level dump valves
- Gas backpressure valve
- 6” x 36” fuel gas scrubber w/ mist eliminator, level Gauge, manometer, PSV and drain
- Fuel gas regulator
- Burner manifold w/ valve, gauges and fittings



Optional items:

Higher working pressure, thermal insulation and firebox working platform.