



Mega Flow Separator

Unlike conventional portable test separators the mega flow separator breaks new ground in separation technology.

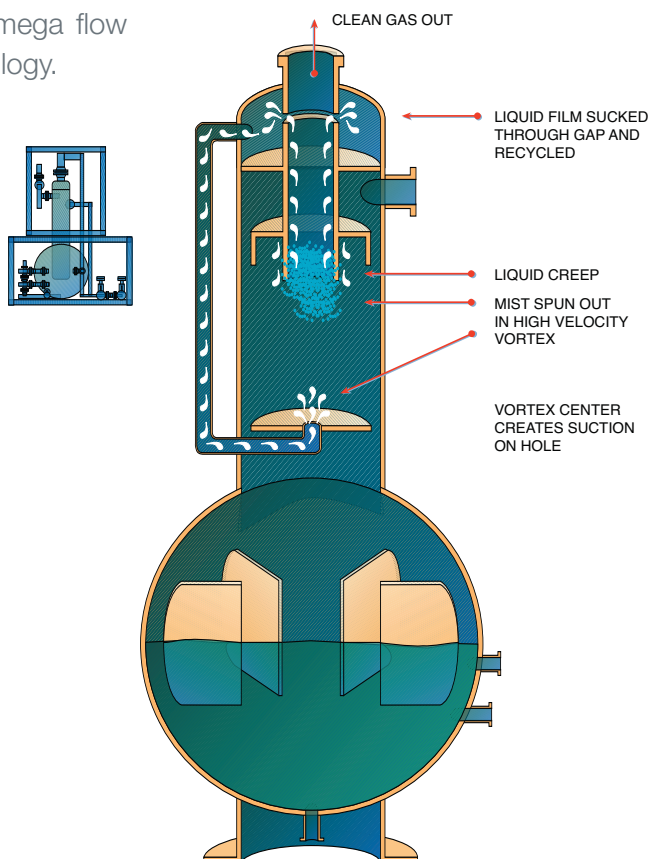
The mega flow separator satisfies the need for an easily transportable high capacity gas, oil and water separator for use both onshore and offshore.

This portability has been made possible by the vessels design which combines both horizontal and vertical separation technology. The separator can be dismantled into 5 separate skids to minimise the overall weight and size during mobilisation / demobilisation.

The mega flow has been specifically designed for use in HPHT gas condensate tests to resolve the poor separation efficiency typically experienced with conventional horizontal separators in this application.

The separator has two stages of separation. In the first phase all the free liquid is spun out of the gas by centrifugal force and collected at the bottom of the liquid chamber sump.

In the second phase the small amount of entrained liquid left in the gas is removed by an increased centrifugal force and is then collected by a cycling circuit.



Applications:

Onshore and offshore oil and gas well testing and clean up operations.

HPHT

Features & Benefits:

Separator can be dismantled into five skids making it easy to transport on or offshore

Large liquid chamber

High capacity gas / liquid rate separation

Large temperature range

Greater operational flexibility

Higher working pressure

Combines horizontal and vertical separation technology

Mega Flow Separator

Technical Specification:

Service	Sour Service
Vessel Diameter	78" (2.4 m)
Working Pressure	2160 psi (150 Bar)
Temperature Rating	-50°F to 350°F (-46°C to 175°C)
Maximum Gas Rate	175 mmscf/day (5 mm m ³ /day)
Maximum Oil Rate	25,000 bbls/day (4000 m ³ /day)
Maximum Water Rate	6290 bbls/day (1000 m ³ /day)
Inlet Connections	6" 206
Gas Line Outlet Connection	6" # 900 lbs Flange
Oil Line Outlet Connection	3" # 900 lbs Flange
Water Line Outlet Connection	2" 206
Relief Valves	2 x 3" x 6" – K Orifice – Crosby JBS SSA
Gas Meter Run	8" Daniel Senior Orifice Meter
Oil Metering	2 x 2" Turbine 1 x 1 1/2" Turbine
Water Metering	1 x 1 1/2" Turbine
Sump Capacity	38 bbls (6 m ³)
Design Code	BS 5500 cet 1, ANSI B31.3, NACE MR-01-075
Dimensions	25ft x 8ft x 22ft (7.8m x 2.5m x 7m)
Weight	34 Tonnes Dry (Maximum Single Lift 12 Tonnes) Maximum Deck Loading 2.05 Tonnes/m ² Wet