

VERTICAL SEPARATOR

UNIT: R123

PERFORMANCE

Maximum Operating Pressure	1440 psi (9928 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-20°F/130°F (-29°C/28°C)
Liquid Storage Capacity	0.32 m3 (2 bbl)
Maximum Vessel Gas Flow Rate @ 1300 psi (8963 kPa)	311 e3m3/day (11 mmscfd)
Maximum Vessel Condensate Rate based on 3 minute residence	62.6 m3/day (393 bbl)
Maximum Vessel Water Rate based on 3 minute residence time	68.8 m3/day (432 bbl)
Maximum Piping Gas Flow rate @ psi (kPa)	473 e3m3/day (16.7 mmscfd)
Maximum Piping Condensate Flow Rate @ psi (kPa)	752 m3/day (4730.7 bpd)
Maximum Piping Water Flow Rate @ psi (kPa)	623.4 m3/day (3920.9 bpd)
Pressure Relief Valves Max Flow Rate	443 e3m3/day (mmscfd)
System Maximum Gas Rate (limited by Vessel)	311 e3m3/day (mmscfd)

VESSEL DIMENSIONS

Vessel Diameter	24" (609.6 mm)
Vessel Length S/S	90" (2286 mm)
Inlet Nozzle Size	3" (88.9 mm)
Gas Outlet Nozzle Size	3" (88.9 mm)
Oil Outlet Nozzle Size	2" (60.3 mm)
Water Outlet Nozzle Size	2" (60.3 mm)

FLOW INSTRUMENTATION

Gas Meter	3" Daniel Senior
Condensate Meter	2" CL600 RF w/ 1" Bore Turbine
Water Meter	2" CL600 RF w/ 1" Bore Turbine
Fuel Gas Meter	Roots
Differential Recorder	



VALVE DETAIL

	Make	Model	Serial Number	Size	Trim
Condensate	Fisher	D4		2"	
Water	Fisher	D4		2"	
Fuel Gas Meter	CVS			2"	3/4"

PSV DETAIL

	Manufacturer	Model	Serial Number	Set Pressure	Size
Separator					
Fuel Gas Scrubber					

SHIPPING DIMENSIONS

Width	9' 6" (2.9 m)
Length	15' (4.6 m)
Height	9' 6" (2.9 m)
Weight Estimate	14,600 lbs. (6623 kg)

CERTIFICATION

Vessel	ASME Sec. VIII Div. 1
Piping	ASME B31.3
Province(s) of Registration	AB, BC
Service	Sour

