

VERTICAL SEPARATOR

UNIT: R107

PERFORMANCE

Maximum Operating Pressure	740 psi (5102 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-20°F/100°F (-29°C/38°C)
Liquid Storage Capacity	47m ³ /d
Maximum Vessel Gas Flow Rate @ psi (kPa) Pressure	169 e3m ³ /d at 4592 kPag
Maximum Vessel Condensate Rate based on 3 minute residence	33m ³ /d
Maximum Vessel Water Rate based on 3 minute residence time	33m ³ /d
Maximum Piping Gas Flow rate @ psi (kPa)	80e3m ³ /d at 4592 kPag
Maximum Piping Condensate Flow Rate @ psi (kPa)	40e3m ³ /d at 4592 kPag
Maximum Piping Water Flow Rate @ psi (kPa)	40e3m ³ /d at 4592 kPag
Pressure Relief Valves Max Flow Rate	2686 SCFM
System Maximum Gas Rate (limited by PSV)	169 e3m ³ /d

VESSEL DIMENSIONS

Vessel Diameter	16" (406.4 mm)
Vessel Length S/S	72" (1829 mm)
Inlet Nozzle Size	4" (114.3 mm)
Gas Outlet Nozzle Size	2" (60.3 mm)
Oil Outlet Nozzle Size	1" (33.4 mm)
Water Outlet Nozzle Size	1" (33.4 mm)



FLOW INSTRUMENTATION

Gas Meter	2" CL300 Daniel Senior
Condensate Meter	1" CL300 w/ Turbine
Water Meter	1" CL300 w/ Turbine
Fuel Gas Meter	N/A
Differential Recorder	Multi Variable Transmitter

VALVE DETAIL

	Make	Model	Serial Number	Size	Trim
Condensate					
Water					
Fuel Gas Meter					

PSV DETAIL

	Manufacturer	Model	Serial Number	Set Pressure	Size
Separator					
Fuel Gas Scrubber					

SHIPPING DIMENSIONS

Width	10' (3.05m)
Length	18' (5.49m)
Height	N/A
Weight Estimate	10,000 lbs (4536 kg)

CERTIFICATION

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

