

VERTICAL SEPARATOR

UNIT: R104

PERFORMANCE

Maximum Operating Pressure	1440 psi (9928 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-20°F/125°F (-29°C/52°C)
Liquid Storage Capacity	102 m3/d
Maximum Vessel Gas Flow Rate @ 1296 psi (8935 kPa)	340 e3m3/d
Maximum Vessel Condensate Rate based on 3 minute residence	51 m3/d
Maximum Vessel Water Rate based on 3 minute residence time	51 m3/d
Maximum Piping Gas Flow rate @ 1296 psi (8935 kPa)	249 e3m3/d
Maximum Piping Condensate Flow Rate @ 1296 psi (8935 kPa)	98.5 m3/d
Maximum Piping Water Flow Rate @ 1296 psi (8935 kPa)	98.5 m3/d
Pressure Relief Valves Max Flow Rate	11527 SCFM
System Maximum Gas Rate (limited by PSV)	340 e3m3/d

VESSEL DIMENSIONS

Vessel Diameter	20" (508 mm)
Vessel Length S/S	72" (1981.2 mm)
Inlet Nozzle Size	3" (88.9 mm)
Gas Outlet Nozzle Size	3" (88.9 mm)
Oil Outlet Nozzle Size	1 1/2" (48.2 mm)
Water Outlet Nozzle Size	1 1/2" (48.2 mm)

FLOW INSTRUMENTATION

Gas Meter	3" Daniels Senior
Condensate Meter	1" CL600 w/ Turbine
Water Meter	1" CL600 w/ Turbine
Fuel Gas Meter	N/A
Differential Recorder	Bristol Babcock 3305



VALVE DETAIL

	Make	Model	Serial Number	Size	Trim
Condensate	To Follow				
Water	To Follow				
Fuel Gas Meter	To Follow				

PSV DETAIL

	Manufacturer	Model	Serial Number	Set Pressure	Size
Separator	Mercer	8127821127S	88493	1440 psig	2G2-0.503in2
Fuel Gas Scrubber	Taylor	82E4351311	27536-231	125 psig	1"E1"- 0.196in2

SHIPPING

Width	10' (3.05m)
Length	18' (5.49m)
Height	N/A
Weight Estimate	10,000 lbs (4536 kg)
5th Wheel Tri Axle, 1 Ton Towable	

CERTIFICATION

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

