

VERTICAL SEPARATOR

UNIT: R105

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	102m3/d
Maximum Vessel Gas Flow Rate @ 1296 psi (8935 kPa) Pressure	340 e3m3/d
Maximum Vessel Condensate Rate based on 3 minute residence	51m3/d
Maximum Vessel Water Rate based on 3 minute residence time	51m3/d
Maximum Piping Gas Flow rate @ 1296 psi (8935 kPa)	433 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	4" (88.9 mm)
Oil Outlet Nozzle Size	1 1/2" (48.3 mm)
Water Outlet Nozzle Size	1 1/2" (48.3 mm)



FLOW INSTRUMENTATION

Gas Meter	4" 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	81-43251T27G21S	A79953	1440 psig	2"x2"-0.472in2
Fuel Gas Scrubber	Mercer	91-17D51V07E1	A78282	125 psig	1"x1"-0.122in2

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

