

HORIZONTAL SEPARATOR

UNIT: R1131

PERFORMANCE

Maximum Operating Pressure	1440 psi (9,928 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-20°F/100°F (-29°C/38°C)
Liquid Storage Capacity (Operating @ 50%)	12.2 m ³ (76.5 bbl)
Maximum Vessel Gas Flow Rate @ 1,440 psi (9,928 kPa) Pressure	7,062 e ³ m ³ /d (250 mmscfd)
Maximum Vessel Water Rate based on 3-minute residence time	2,544 m ³ /d (16,000 bpd)
Maximum Piping Gas Flow Rate @ 1,440 psi (9,928 kPa)	3,842 e ³ m ³ /d (136 mmscfd)
Maximum Piping Liquid Flow Rate @ 1,440 psi (9,928 kPa)	4,712 m ³ /d (29,636 bpd)
Pressure Relief Valves Max Flow Rate	3,437 m ³ /min (121,387 SCFM)
System Maximum Gas Rate (limited by piping)	3,842 e ³ m ³ /d (136 mmscfd)

VESSEL DIMENSIONS

Vessel Diameter ID	84" (2133.6 mm)
Vessel Length S/S	240" (6096 mm)
Inlet Nozzle Size	CL600 12" (323.8 mm)
Gas Outlet Nozzle Size	CL600 12" (323.8 mm)
Water Outlet Nozzle Size	CL600 4" (114.3 mm)
Oil Outlet Nozzle Size	CL600 4" (114.3 mm)

SKID CONNECTIONS

Connection Inlet Size	12" (323.8 mm)
Connection Gas Outlet Size	12" (323.8 mm)
Connection Water/Oil Outlet Size	6" (168.3 mm)

FLOW INSTRUMENTATION

Gas Meter	Not Installed
Condensate Meter x 2	Turbine
Water Meter	Not Installed
Differential Recorder	Not Installed

SHIPPING DIMENSIONS

Width	16' – 9" (5.11 m)
Length	40' – 0" (12.19m)
Height	13' – 0" (3.96 m)
Weight Estimate	144,000 lbs (65,317 kg)

CERTIFICATION

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

