

FRAC SEPARATOR
UNIT: FS141
PERFORMANCE

Maximum Operating Pressure (limited to PSV set pressure)	200 psi (1,380 kPa)
Minimum/Maximum Rated Operating Temperature of Vessel	-50°F/400°F (-46°C/204°C)
Liquid Storage Capacity	134 bbl (21.3 m ³)
Maximum Gas Flow Rate @ 90% Maximum pressure	
Maximum Liquid Rate (operating ½ full)	76,987 bbl/day (12,240 m ³ /day)
Liquid Retention Time at maximum flow rate	1.3 minutes
Flometer max Gas Flow rate @ 90% Maximum pressure	
Pressure Relief Valves Max Flow Rate	24.1 MMscfd (682 E3m ³ /day)
System Maximum Gas Rate (limited by PSV)	24.1 MMscfd (682 E3m ³ /day)

VESSEL DIMENSIONS

Diameter	8' - 0" (2438 mm)
Length S/S	12' - 0" (3657 mm)

FLUID TRANSFER SIZE & PRESSURE RATING

Inlet size	6" (152.4 mm)
Inlet pressure rating	285 psig (1,965 kPa)
Gas Outlet	6" (152.44 mm)
Oil Outlet size	4" (101.6 mm)
Water outlet size	4" (101.6 mm)
Outlet's pressure ratings	285 psig (1,965 kPa)

FLOW INSTRUMENTATION

Gas Meter	6" Senior Daniels
Back Pressure	3" (76.2 mm) Grove Model 900 TE
Dump Valve	
Differential Recorder	Barton

HEATING SYSTEM

BTU Rating Input	0.3 MMBTU/hr
Burner Fuel Type	Propane or Natural Gas
Burner System	Kenilworth
Burner type	Profire 2100
Ignition type	Natco (modified)
Bath Volume	4.75 bbl (0.75 m ³)
Fire Tube	8 in (203 mm)
Fire box	18 in (547 mm)



SHIPPING DIMENSIONS

Width	10' (3.1 m)
Length	11' (3.4 m)
Height	20' (6.1 m)
Weight Estimate	

CERTIFICATION

Vessel	ASME Sec. VIII Div. 1
Piping	ASME B31.3
Province(s) of Registration	AB
Sour Service NACE Standard	MR0175

