

# Equipment Specification List

## Estimating



The equipment listed below details all major equipment, instrumentation, and electrical equipment of the package.

Client:	<b>Crimtech Stock</b>		Project Title:				
Project No.:	<b>P3317-05</b>	Client No:		Date:	<b>03/20/2019</b>	Revision:	<b>Rev. 0</b>
	(Project Number)		(AFE or PO Number)		(MM/DD/YYYY)		
<b>H-1050 Opsco 0.750 MMBTU/Hr. Line Heater</b>							
Bath Size:	36" (914 mm) O.D. x 144" (3658 mm) f/f						
Expansion Tank:	20" (508 mm) O.D. x 48" (1219 mm)						
BE-1050	Wenco Flame Arrester Burner Assembly, Model Number SB20-10H, 0.75 MM BTU/hr., 2 1/2" main burner, 3/16 orifice						
Fire Tube:	10" (508 mm) O.D. x 240" (6096 mm).						
Flare Stack	10" (508 mm) O.D. x 120" (3048 mm) c/w mitered 90 elbow, down draft diverter\rain cap, flanged removable.						
Process Coils:	Coil 1 Pre-heat: 2" Sch. 160, 4 Pass, c/w 2" 900 RF Sch. 160 Inlet & Outlet flanges, MAWP 3000 psig (20,685 kPa) @ 93 °F (121 °C), CA 1/16" (1.6 mm), RT 100%, PWHT, removable. Coil 2 Re-heat: 2" Sch. 160, 10 Pass, c/w 2" 900 RF Sch. 160 Inlet & Outlet flanges, MAWP 3000 psig (20,685 kPa) @ 93 °F (121 °C), CA 1/16" (1.6 mm), RT 100%, PWHT, removable.						
Service:	Sour						
Fuel Gas Coil	1" Sch. XH, MAWP 150 psig (1034 kPa) @ 93 °F (121 °C)						
Insulation:	Shell and end plates: 1.5" thick fiberglass insulation with 0.020 stucco embossed aluminum outer cladding, held with SS banding.						
<b>Skid</b>							
Tag No.(s):	SKD-100						
Size:	10'-0" wide x 21'-0" long, approximately						
Members:	Main Beams: Wide Flange W8@18 lbs./ft.						
Lift Lugs:	Four (4), c/w 2.875 dia. hole,						
<b>Building</b>							
Tag No.(s):							
Size / Type:	10'-0" wide x 14'-0" long x 8'-0" low eave x 9'-0" high eave, shed style roof self-framing building. Exterior color green, interior aluminum.						
Door(s):	One (1) – 6' x 7' steel double door, c/w 22" x 22" IWG window, panic hardware.						
Windows:	One (1) – 38" x 36" double glazed sliding window c/w screen.						
Ventilation:	(a) Two (2) - 12" x 12" manually adjustable louvers c/w screen						
<b>Filters &amp; Scrubbers</b>							
FGS-1045 c/w HLSD	Opsco Fuel Gas Scrubber, NPS 6 x 39" OAL – 150 psig @ 150 °F, 0.125" CA, (1034 kPa @ 66 °C, 3.0mm CA); 2" NPT Outlet Connection, 1" NPT Inlet Connection, 1" NPT Drain Connection, Mechanical High Level Shut Down (Reduces 2" outlet Down to 1" NPT), CRN in						

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AB, BC, SK.							
<b>Instrumentation</b>							
BMS-100	Combustex Burner Management System (BMS) Model 2000/2500, 12/24 VDC, microprocessor based flame fail/ignition system with auto re-light, system on, pilot on and alarm indicating LEDs, CSA approved Class 1 Div 2 Group A, B, C & D hazardous location, CSA approved as a combustion controller, B149.3 compatible (CAN/CSA C22.2, No. 199-M89), Solid state ignition module housed in controller box.						
BC-200	Combustex Pilot Pro ignition system, model 900, 12/24 VDC.						
BSV-100A\B	ASCO Safety Shutoff Valve, model HV285926012, 1" 50 psi max.						
BSV-200	ASCO Safety Shutoff Valve, model HV426716002, 1/4" 50 psi max.						
BX-100	Combustex Fuel Gas & Pilot Gas Valve Train, c/w 12/24 VDC, shut-off solenoid valves, pre-approved for B149.3-15, pre-assembled with CSA certified components approved for Class1, Div. 1 location, All stainless steel fittings and ball valves.						
BY-100	ASCO Shutoff Valve, model EF8320G202, 3/8" 50 psi max.						
LG-100	Penberthy, Z18515, 5/8in x 18in (approx.), Tubular Sight Gauge, c/w 4 brass wire rod protectors and 1/2 MNPT x 5/8in TBG Penberthy F gauge cocks.						
LSLL-100	SOR 1510 Model, XXX, Low Level Switch, 24 VDC, Low Power, CSA						
PSHH-200	Custom Control Sensors, Model 6900GZE12, Field Set						
PSLL-100	Custom Control Sensors, Model 6900GZE12, Field Set						
PSV-201	Mercer Relief Valve, Model 14421109, D orifice, set at 150 psi (1034 kPa), carbon steel body, standard trim, 1" MNPT x 1 FNPT.						
PRV-100	Fisher 627, 1in x 1000 psig, 70-150 psig set pressure 1/4" orifice.						
PRV-110	Fisher 627R, 1in x 1000 psig, 0-20 psig set pressure, 1/2" orifice.						
PRV-200	Fisher, 67CFR-362SC/SG60, 0-35psi, Pilot Gas Regulator, Tapped Bonnet, c/w gauge (0-30 PSI).						
PRV-101\102	Fisher, 67CFR-601SC/ SG60, 0-35psi, Instrument Regulator, Tapped Bonnet, c/w gauge (0-60 PSI).						
PC-1050	Fisher Type 4150R controller, 1500 psig K-monel spring.						
PCV-1050	Pressure Control Valve, Fisher Type EHT 2" 1500 ANSI, WCB valve with 1-7/8" port NIT 50-316 Alloy 6 cage, c/w Fisher Type 667 actuator, 10-30 psig.						
SCV-100	SMC, Adjustable Instrument Flow Restrictor Valve, Model AS4000,						
TE\TC-100 \	Combustex, Temperature controller and High Temperature Shutdown, Dual Type K						
TSHH-100	Thermocouple, 12/24 VDC, Class 1, Div. 2, NEMA 4X Enclosure						
TI\TW-100	Trend 33025A006G4 Bimetal Thermometer, 0 to 250°F, dual scale, 3" face, 12" stem, 1/2" NPT CBM, Thermal well, 3/4in x 1/2in, 316 Stainless Steel.						