

## *Pilot Testing*

V ✦ SEP Spiral Unit Skid Machine Specifications (12/15/08)

**Current operating Manual: SU Version 1.0**

### **Operating Conditions:**

Equipment Rating: Nema 4, Indoor-Outdoor protected from sunlight and rain.  
Operating Ambient Temperature Limits: 0-40C  
Storage Temperature: 0-40C  
Relative Humidity: 90% or less, non-condensing  
Elevation: 3300 ft. (1006 M), without derating.

### **Filter Pack:**

Membrane Area: 255 sq. ft. (3 elements 4" dia by 40" long 85 sq. ft. each)  
Estimated Production: 1-2gpm (at 5-10GFD)  
Membrane Type: LFC-3 (thin film composite)  
Hold Up Volume: Approx. 3 Gallons (11.36 liters)  
Filtrate Removal Capacity: Approx. 5 GPM (18.9 l/min)  
Maximum Operating pressure: 600 psi  
Wetted Materials: 316 Stainless Steel, Fiberglass, EPDM



### **Feed System:**

Pump: HYDRA-CELL (D10) LSGSHEM8 10 GPM @ 1725 RPM  
Motor: BALDOR M3615T 266784Y696H1, 5HP 1725 RPM, 208-240 VAC 3 phase  
Pump Bypass Valve: WANNER C2ADBESSEF  
Feed Motor Control: Allen Bradley Power Flex 40

### **Instruments:**

Pressure Gauges: 1 on Process Outlet and 1 on Process Inlet WIKA 233.54 or ASHCROFT 1009 (600psi)  
Flow Meter (Plastic Tube Indicator): COLE-PARMER Model 32445-58

### **Electrical Power Requirements: Standard Unit (With a 2HP Feed Pump Motor)**

(Note: A 5HP Pump can be used but generally does not operate at more than 3 HP in this System)

Voltage: 208 - 240 VAC 3 phase  
Transformer Options: 380 - 480 VAC, or 580-615 VAC  
Normal Full Load Operating Current: 9 - 12 amps  
Power Cord: 8 Ft long with a NEMA L15-30P plug  
Required Receptacle: NEMA L15-30, 20 amp circuit recommended

### **System Size and Weight:**

Overall Dimensions: 38" w x 24" d x 64" h  
System Weight: 400lbs. (182 kg) approximate