

Pilot Testing

V ✦ SEP L/P Machine Specifications 12/15/08

Current operating Manual: L/P Version 5.0

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: L Mode: 0.48 sq. ft. P Mode with 38 membranes: 16.44 sq. ft.
Hold Up Volume: P Mode: Approx. 0.8 Gallons (3.0 liters)
Filtrate Removal Capacity: Approx. 2.25 GPM (8500 ml/min)
Maximum Operating pressure: 600 psi
Maximum Shear Rate: 150,000 Inverse Seconds
Wetted Materials: 316 Stainless Steel, Polypropylene, EPDM

Vibration System:

Drive Bearings: MORSE SEALMASTER RFB2102
Vibration Motor: BALDOR VM3555, 2HP 3450RPM, 208-240 VAC 3 phase
Vibration Motor Control: Allen Bradley Power Flex 40

Feed System:

Pump: HYDRA-CELL (M3/D10) LSGSHEM8 3.0/10 GPM @ 1725 RPM
Motor: BALDOR M3615T 266784Y696H1, 3/5HP 1725 RPM, 208-240 VAC 3 phase
Pump Bypass Valve: WANNER C2ADBESSEF
Feed Pump Motor Control: Allen Bradley 3ph Contactor 100-C23*10/100F/193ED1DB

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
Timers: ATC Long Range Model 365 Timer
Control Valve at Process Outlet: FloTite 320SSFFFL13-1/2"
Actuator: Indelac R Series Nema 4 Model R4BF03-2

Electrical Power Requirements: Standard Unit (With a 3HP 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 (9 - 20 amps for a 5HP Feed Pump Motor)
Power Cord: 8 Ft long with a NEMA L15-30P plug
Required Receptacle: NEMA L15-30, 30 amp circuit recommended

System Size and Weight:

Overall Dimensions: 38" w x 32" d x 81" h
System Weight: 750lbs. (341 kg) approximate

