

STANDARD SPIRAL SYSTEM COMPONENT SPECIFICATIONS: (S-7200 Unit)
Updated: 11/29/08

1] Filter Pack

Membrane:	SWC4
Membrane Surface Area:	7200sf (669m ²) (18ea 8”Dia x 40”L)
Estimated Production:	24-48gpm (at 5-10GFD)
Maximum Operating Temperature:	120 °F (49°C) (Options for up to 80°C)
Allowable Feed Slurry pH Range:	2-11 (Options for 1-14)
O-ring Material:	Ethylene Propylene
Filter Pack Housing:	Polyurethane Coated, Filament Wound, Epoxy FRP
Wetted Ports:	316L Stainless Steel
Wetted Plastic End Plates:	PVC Thermoplastic

2] Piping

Maximum Pressure:	1200 psi
Pressure Piping:	316L Stainless Steel Schedule 80
Atmospheric Piping:	CPVC Schedule 80
Pipe Clamps:	<i>Victaulic</i> Zero-Flex Style 07 EPDM
Manual Valves:	<i>Hayward</i> CPVC 3-Piece Ball Valves w/ Viton seats
Globe Valve:	<i>JFW Valves</i> Series-200 ASTM NPT Valve w/ Viton seals
Flow Control Valves:	<i>FloTite</i> Series-300 316SS 60 degree V-Ball <i>BLX</i> V100E positioner
Ball Check Valves:	<i>Hayward</i> CPVC Ball Check Valve
Pneumatic Actuators:	None
Skid Piping Terminations:	150lb 1”/2” CPVC Flange EPDM
Pneumatic Air Supply:	90lb Instrument Grade Air (3/8”npt connection to FCV)
Clean in Place Tank:	260 Gallon Cross Linked Polypropylene w/ Lid (36” ø x 74”)

3] Electrical Specifications:

Controls Voltage:	None
Programmable Controller Type:	None (Control signals from VSEP PLC)
Touch Screen Display Type:	None (Set Point change at VSEP HMI)
Enclosures:	<i>Hoffman</i> NEMA 4 Powdercoat Finish 24x30x8
Switches, Relays, & Contactors:	None
Pressure Indicators:	<i>Ashcroft</i> Dial Gauge 0-30psi
Pressure Sensors:	<i>Efector</i> PN-2222
Level Sensor:	<i>Efector</i> PN-2228
Flow Meters:	<i>GF Signet</i> 3-2537-6CT0
Conductivity:	<i>GF Signet</i> 3-2850-52-41
Temperature Sensor:	<i>Efector</i> TN-2530/ E-40107
pH Meter:	<i>GF Signet</i> 3-2774-1/ 3-2750-2
Solenoid Valve:	None

4] Pump Specifications:

Feed Pump Type:	<i>Hydracell</i> D35 316SS 30gpm Positive Displacement
Feed Pump Motor:	<i>Baldor</i> 20 HP 3500 rpm TEFC 460VAC, 3phase, 30A
Motor Speed Controller:	<i>AC Tech</i> 20HP NEMA 4 (or Equal)
Chemical Metering Pump:	None (Share with VSEP skid)
Metering Pump Motor:	None (Share with VSEP skid)

5] Pre-Screen Basket Strainer:

Filter Housing Type:	<i>Keystone</i> Water Filter
Filter Cartridge:	Polyester 50micron
Capacity:	25 GPM

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5] Pre-Screen Basket Strainer: (continued)

Filter Housing Material:	Clear Styrene
Elastomers (Seals):	EPDM

6] Operating Site Conditions:

Equipment Rating:	NEMA 4, Indoor/Outdoor protect from sunlight & rain.
Ambient Temperature:	5 - 37°C
Storage Temperature:	2 - 70°C (Protect Filter Pack from Freezing)
Max Relative Humidity:	<95%, non-condensing
Elevation:	3300 ft maximum without derating