

**36" STAND ALONE VSEP SYSTEM COMPONENT SPECIFICATIONS**  
4/10/08

**1] Filter Pack**

<b>Membrane:</b>	MF, UF, NF, or RO
<b>Membrane Area:</b>	440-600SF (40.5-55.2M <sup>2</sup> )
<b>Maximum Operating Temperature:</b>	160 °F (70°C) (Options for up to 130°C)
<b>Allowable Feed Slurry pH Range:</b>	2-11 (Options for 1-14)
<b>O-ring Material:</b>	EPDM (Options for Viton)
<b>Filter Pack Housing:</b>	Vinyl Ester 8084 Durekane Fiberglass
<b>Wetted Steel Trays:</b>	304 Stainless Steel .018 Gauge (Option for 316SS)
<b>Wetted Plastic End Plates:</b>	Polypropylene (Options for Teflon, Aluminum)

**2] Piping**

<b>Frame Materials:</b>	Carbon Steel Painted
<b>Maximum Working Pressure:</b>	550 psi
<b>Process Piping:</b>	316L Stainless Steel Schedule 80
<b>Special VSEP Concentrate Pipe:</b>	1" Alloy 20 Stainless Steel .065 wall
<b>Elastomers (Gaskets):</b>	EPDM (Options for Viton)
<b>Feed Inlet Connection:</b>	<i>Victaulic</i> 2" Zero-Flex Style 07 EPDM
<b>Permeate Outlet Connection:</b>	<i>Victaulic</i> 2" Zero-Flex Style 07 EPDM
<b>Concentrate Exit Connection:</b>	<i>Parker</i> Compression x NPT 1"

**3] Vibration System**

<b>Motor:</b>	<i>Baldor</i> CM4106T 460VAC, 3phase, 20HP, 3525 RPM
<b>Vibration Amplitude:</b>	3/4 inch (peak to peak measured at the Filter Pack)
<b>Frequency Range:</b>	49.0 hz to 55.0 hz (Approximate)
<b>Maximum Decibels:</b>	<85
<b>Bearing RPM:</b>	2800 to 3100
<b>Bearing Oil:</b>	<i>Sullube</i> ~750 ml Compressor Oil
<b>Bearing O-rings:</b>	2-263 & 2-270 Buna

**4] Operating Site Conditions:**

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