

i18 STAND ALONE VSEP SYSTEM COMPONENT SPECIFICATIONS

9/26/11

1] Filter Pack

Membrane:	MF, UF, NF, or RO
Membrane Area:	180-350SF (14-27M2)
Maximum Operating Temperature:	160 °F (70°C) (Options for up to 130°C)
Allowable Feed Slurry pH Range:	2-11 (Options for 1-14)
O-ring Material:	EPDM (Options for Viton)
Filter Pack Housing:	Vinyl Ester 8084 Durethane Fiberglass
Wetted Steel Trays:	304 Stainless Steel .018 Gauge (Option for 316SS)
Wetted Plastic End Plates:	Polypropylene (Options for Teflon, Aluminum)

2] Piping

Frame Materials:	Carbon Steel Painted
Maximum Working Pressure:	550 psi
Process Piping:	316L Stainless Steel Schedule 80
Special VSEP Concentrate Pipe:	3/4" Alloy 20 Stainless Steel .065 wall
Elastomers (Gaskets):	EPDM (Options for Viton)
Feed Inlet Connection:	<i>Victaulic</i> 1.0" Zero-Flex Style 07 EPDM
Permeate Outlet Connection:	<i>Victaulic</i> 1.0" Zero-Flex Style 07 EPDM
Concentrate Exit Connection:	<i>Parker</i> Compression x NPT 3/4"

3] Vibration System

Motor:	<i>Baldor</i> CM3616T 460VAC, 3phase, 7.5HP, 3525 RPM
Vibration Amplitude:	3/4 inch (peak to peak measured at the Filter Pack)
Frequency Range:	46.0 hz to 51.0 hz (Approximate)
Maximum Decibels:	<85
Bearing RPM:	2600 to 3000
Bearing Oil:	<i>Sullube</i> ~750 ml Compressor Oil
Bearing O-rings:	2-263 & 2-270 Buna

4] 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