VST ENVIRO-LOC™ ECS Membrane Processor

The Safeguard of Enhanced Vapor Recovery (EVR)



The Entire ENVIRO-LOC Product Line Exceeds All CARB EVR Requirements

Vapor Systems Technologies, Inc.

VST ENVIRO-LOC ECS Membrane Processor

The ECS Membrane Processor is the safeguard of the ENVIRO-LOC EVR System. The components of this advanced, patented balance system work together to provide the industry's most effective, environmentally friendly, cost efficient vapor recovery solution. The simplicity of design results in nominal runtime, long service life on all components, and lower maintenance expense with fewer station shutdowns.



This proven system offers:

- UST pressure management system maintained below atmospheric pressure
- No dispenser vapor pumps required
- Membrane is gasoline-resistant, PTFE coated hollow fibers
- Reduced ignition potential from static, sparks and open flames

The system offers a nearly limitless capacity with no throughput limitations. As your facility grows, the ECS Membrane Processor will keep pace with the demands of additional dispensers.

The unit's simple, compact design offers multiple mounting options suitable for ground, roof or canopy installations. No above ground storage of volatile gasoline vapors or liquid gasoline.

An optional fire resistant enclosure with a two-hour rating meets all regulatory requirements.

The ENVIRO-LOC ECS Membrane Processor from VST offers your customers ease of use and increased safety while giving you lower maintenance expense, fewer station shut-downs and long service life in a variety of applications. Bottom line, the ENVIRO-LOC EVR System can save your facility thousands of dollars over old-style vacuum assist systems.

Membrane Processor Features, Benefits and Advantages:

Features	Benefits	Advantages
• Actively controls UST pressure	• Nominal runtime • Less energy usage • Long service life on all components	• Positive cash payback
• Simple, compact design	• Multiple mounting options: ground, roof or canopy • Low profile • Small footprint • Esthetically pleasing • Simple installation • Only two moving parts	• Higher customer satisfaction • Low maintenance expense • Designed for maximum safety
• Membrane is gasoline-resistant, PTFE coated hollow fibers	• PTFE coating is highly resistant to gasoline and gasoline vapors • High capacity, allowing for near limitless GDF throughput	• Fewer station shut-downs • Lower cost of ownership

• 2-Hour Fire Resistant Enclosure (optional)	• Meets all regulatory requirements
	• Enclosure is:
	  • Very small
	  • Requires no special construction
	  • Requires no installation
		• Compact design
		• Near limitless capacity
		• Flexible placement options

• All seals and O-rings throughout the entire system are rated for gasoline blends up to 15% methanol / ethanol / MTBE	• Long service life in a variety of applications	• Eliminates harmful gasoline vapor emissions • Converts vapors into saleable product

Specifications:

Part Numbers:	Standard Aluminum Enclosure		
VST-ECS-CS3-110	Single-Phase	L-39"x W-27"xH-43" Height includes 18" legs	385 lbs.
VST-ECS-CS3-310	Three-Phase	L-39"x W-27"xH-43" Height includes 18" legs	350 lbs.
Part Numbers:	Fire-Rated Steel Enclosure		
VST-ECS-CS3-310	Single-Phase	L-39"x W-27"xH-60" Height includes 18" legs	485 lbs.
VST-ECS-CS3-310	Three-Phase	L-39"x W-27"xH-60" Height includes 18" legs	450 lbs.
Certifications & Listings:	UL Listed California Air Resources Board (CARB) certified (Enhanced Vapor Recovery Specifications) California OSHA approved California Department of Measurement Standards California State Fire Marshal California State Water Board		

Construction:

Base:	7-gauge steel
Standard Enclosure:	.060" powder coated aluminum
Fire-Resistant Enclosure:	16-gauge powder coated steel
Blower & Vacuum Pump (single phase or three phase models):	Class 1, Div. II rated for explosion proof
Hydrocarbon Sensor:	Class 1, Div. II rated for explosion proof Infrared technology
Membrane:	PTFE coated hollow fiber
Membrane Housing:	Temperature controlled machined aluminum
Double check valve:	Machined aluminum with Chrome-plated check-valve balls

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