



What's new at Enviro Vault?

Cost Savings Scenarios

Updated scenarios have been posted at www.envirovault.com/Cost-Savings-Scenarios. These scenarios show realistic examples of common issues experienced within the industry and how use of an Enviro Vault can cost effectively rectify these problems.

Catalytic Heater Sizing Calculator

A heater sizing calculator is in development to analyze heating requirements for a variety of tank sizes and applications. Initial calculations show positive indicators that confirm EVCL's recommendations for freeze protection. EVCL is currently acquiring test data with an independent third party for verification. Results will be used to size multiple catalytic heaters for the ThermoVault. This calculator will be available online in early 2011.

New Design

Enviro Vault has a new design in the works. Please check out Edition 5 for our official announcement and details. Updates will be available in the New Technology Updates section below in subsequent issues.
www.envirovault.com/files/HeatTransferTechnicalBulletin.pdf

New Technologies Updates

DUOVAULT - First units shipped to customer September 2010.

THERMOVAULT - Prototype construction in progress with testing scheduled for November

FLOVAULT - Investigating 16" separator design.

Features

- 1 Superior spill containment
- 2 Prevents valve damage from freezing
- 3 Easy to move and retrofit into existing equipment
- 4 Fittings can be laser cut and installed prior to shipment
- 5 Reduces tank & equipment "footprint" on the lease

Benefits

- 1 Increases operator safety and efficiency
- 2 Reduces soil contamination and reclamation costs
- 3 Reduces operation costs
- 4 Improves security
- 5 Provides superior environmental stewardship



Bolt-in



Conventional with HLSD



500bbl Horizontal Rental



FloVault

Bolt-in Enviro Vaults

Each edition will feature an Enviro Vault for a different application

The bolt-in was introduced in 2003 as a retrofitting option for use in existing tanks. It is custom built to bolt into the man way of the tank and is fully fabricated in the shop so it arrives field ready. In addition to the standard features and benefits of the Enviro Vault, some additional ones include:

- Easy to install with no "Hot Work" or cleaning required
- Optional coating for sour service
- Available for use in round API man ways as well as rectangular man ways
- Heaters with wiring packages are inspected and approved for Class 1/ Div 1 hazardous areas (Canada)
- Dual heater assemblies available for extra heat



Enviro Vault is pleased to announce:



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party for verification. Results will be used to size multiple catalytic heaters for the ThermoVault®. EVCL's vision in bringing the ThermoVault® to market includes;

- Increased operational safety
- An alternative to firetubes and expensive regulation compliant fuel gas trains
- Heat for light oil applications which, when using a firetube, is against regulations in some areas
- Potential carbon tax savings to producers

EV in the Community

In order to educate upcoming oil and gas industry operators, in 2010 Enviro Vault donated a full-faced retrofit Enviro Vault to the Lakeland College H.O.O.T. (Heavy Oil Operator Training) program.

Testimonial

"We use Enviro Vaults in all our new tanks. In all of our older tanks we get an Enviro Vault installed prior to putting them back into service. We find the convenience of having the valves heated in a bank to be valuable for winter operations; it reduces freezing, prevents spillage and valves can be easily marked for trucker convenience and proper loading. Our company believes in tank treating and to make it convenient for operators to "check taps" proves to be an economic benefit also. We wouldn't go without them!"

Kevin Golem

Operations Manager,
BlackPearl Resources Ltd.

TIPS FROM THE VAULT

- When using catalytic heaters inside an Enviro Vault, ensure that all wiring meets the applicable codes. Some wires such as the cable truck leads are not certified for Class 1, Div 1 use and should be mounted outside the enclosure. Enviro Vault offers Class 1 Div1 certified wiring packages with all of our heaters.

Please see the website at www.envirovault.com/newsletters to view our previous editions.