



## **OIL-TANKShield**

Advance Oil and Gas storage  
tank fire protection system



Advanced fire protection systems



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With over 60 years' experience, Lehavot has long been recognized as a pioneer and a leading provider of high quality Fire Protection systems. Incorporating the most advanced technologies, LEHAVOT's best of breed solutions have proven themselves in every level of fire protection applications.

Today, LEHAVOT's tailor-made solutions help global customers meet the challenges of the 21st century, delivering superior performance over a long service life at the most competitive price.

### Our Advantages - Operational Efficiency & Outstanding Reliability

LEHAVOT's products benefit from decades of expertise and experience in the development, design and manufacture of Fire Protection Systems. Our wide range of state-of-the-art solutions provide the highest operational efficiency and utmost reliability, offering unequalled operational quality.

### Environmental Considerations

LEHAVOT's dedication to its customers is matched only by our commitment to the environment. Our comprehensive systems maximize fire agent efficiency, while constantly searching for new and better manufacturing materials and methods to ensure sustainability. LEHAVOT products comply with the most stringent international standards and approvals including FM, UL, EN, CE, MIL specs, and other.

### Customized Solutions + Global Presence = Peace of Mind

Powered by decades of intensive interaction with the world's major end users, LEHAVOT's proven products have been carefully customized to meet the requirements of global customers such as Reliance, IOTL, Navistar and many others, in the following applications:

- Buses & Trains
- Kitchen-Hood systems
- Oil & Gas tank storage protection
- Off-Road vehicles (Mines, Agriculture, etc)
- Marin
- Crain
- Conveyers
- Cellular antennas
- CNC machines
- Military



LEHAVOT's global presence provides customers with real peace of mind. With a worldwide network of subsidiaries and international distributors, the company's reputation has been established through a commitment to top quality sales & post sales service supported by teams of highly trained & dedicated professionals.

## Automatic Fire Protection Systems by Lehavot



### **BUSShield**

Fire Protection for Buses



### **OIL-TANKShield**

Fire Protection for Oil & Gas Storage Tanks



### **KITCHENShield**

Fire Protection for Industrial & Commercial Kitchens



### **DEFENSEShield**

Fire Protection for Military Applications

## ADVANCED OIL-TANK FIRE PROTECTION FOR OIL & GAS STORAGE TANKS

### Safeguarding oil storage tanks (with floating roofs) with Lehavot advanced oil storage tank fire protection system

Rim Seal floating roof tank fires represent one of the most dangerous threats for Oil, Chemical and Petrochemical storage terminals. When discussing Fuel Storage, the threat of fire is obvious and so is the need for a reliable, fast reacting fire detection and suppression system.

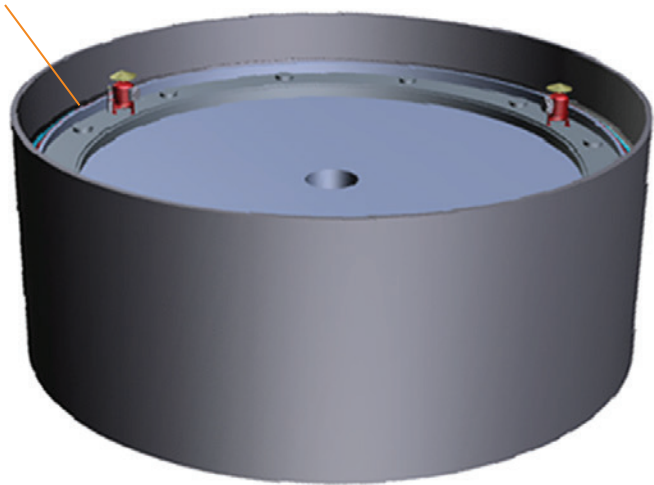
### Fuel tank storage tanks with floating roofs

Fuel storage tank with floating roofs are generally used for the purpose of storing large quantities of petroleum products.

The tanks are built with a cylindrical steel shell and covered with a floating roof. The roof floats on the surface of the stored liquid, rising and descending according to filling and emptying of the tank.

The area between the tank shell wall and the internal floating roof (the difference in the tank shell diameter and the internal roof diameter) is known as the rim-seal area. Many of the fires in oil tank storage units originate in this area.

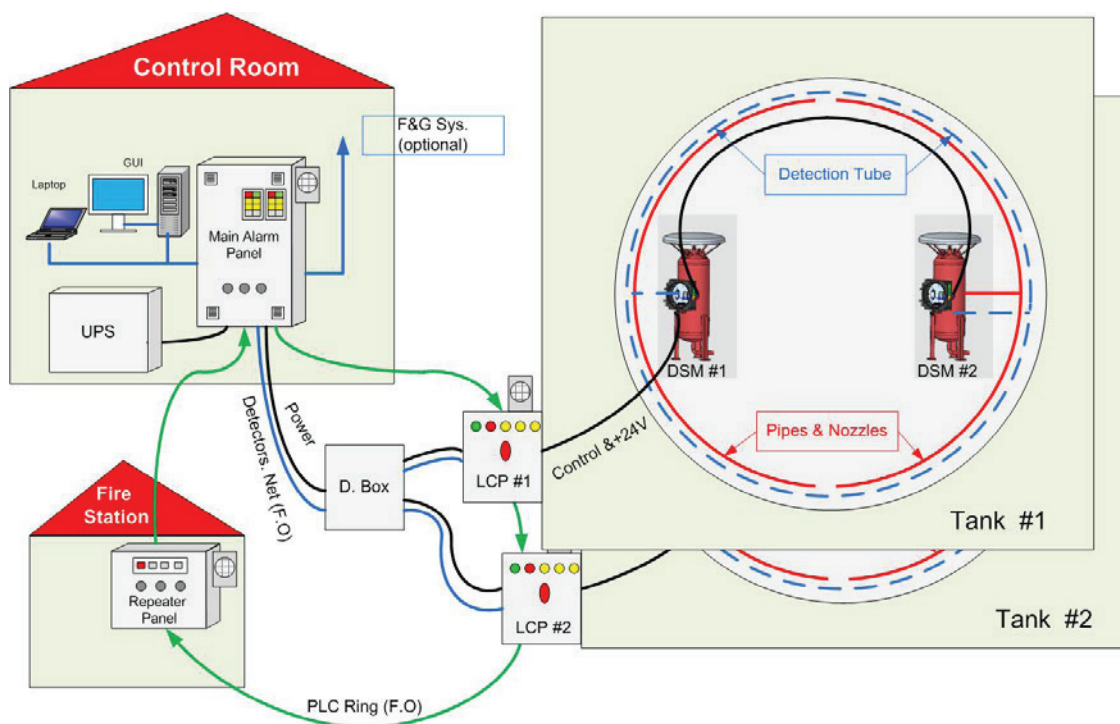
Rim Seal



## Features and Benefits

- Full BIT (Built in Test) Capability
- Zone 1 Explosion Proof System
- Automatic extinguishing system
- Covers the full circumference of the tank
- Full monitoring of all systems components
- Alert to main control room and fire station
- FM approved
- Field programmable system
- Durable, flexible tubing - Easy installation
- Robust, tolerates grime, dirt and extreme conditions
- Low cost of ownership

## System Layout



## Certificates and Standards

- Approved for FM 3210 Std
- ISO 9001:2008 - Quality assurance certification

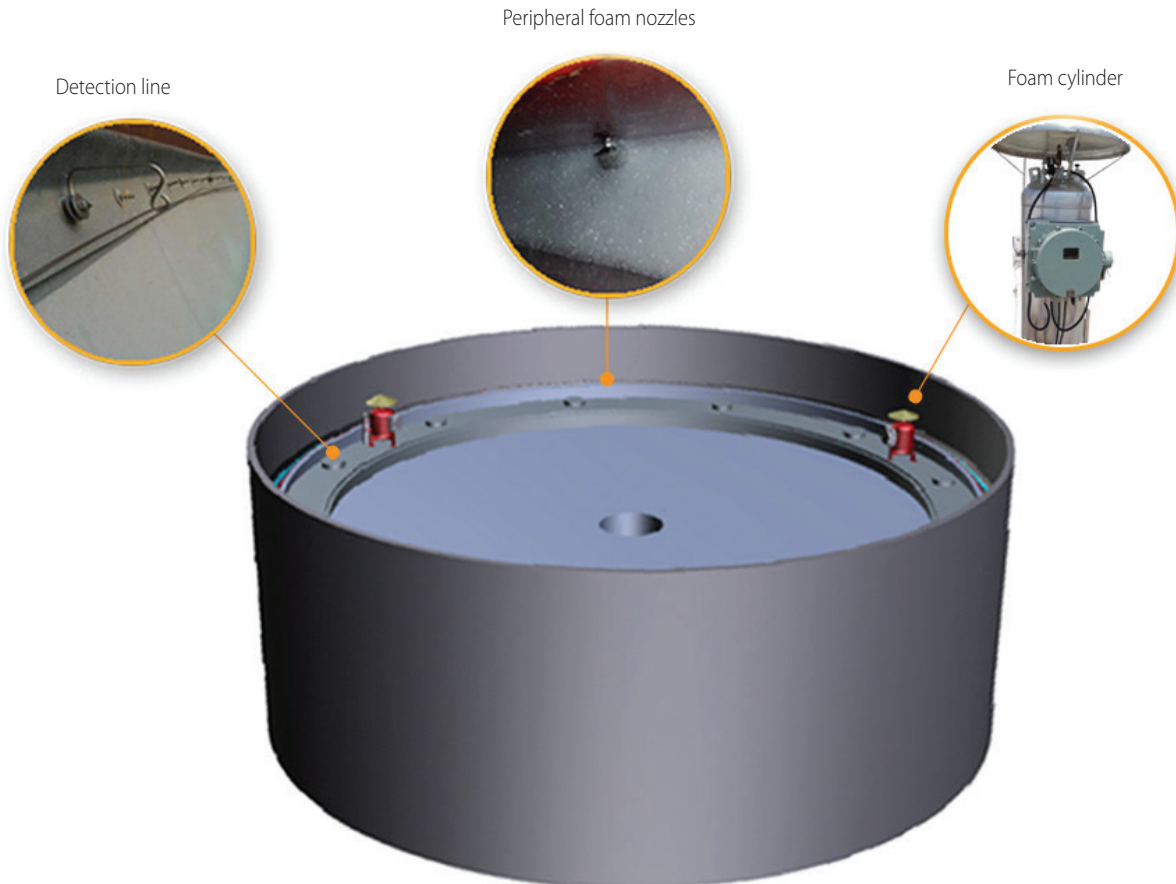


## System

The Lehavot OIL-TANKShield automatic rim seal fire detection and extinguishing system detects and extinguishes fire over external floating roof tanks storing class "A" Petroleum products at the incipient stage while simultaneously alerting the personnel at the control room and fire station so that they can respond to the incident.

By using an advanced Linear Heat Detection System the system senses the rapid rate of temperature rise or pre-set maximum temperature or both to ensure that any fire on rim seal is detected within 10 seconds of occurrence.

Peripheral foam nozzles discharge to extinguish the fire and prevent reignition in the rim seal area.





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